



# **PADS4 Installation Manual**

Version no. 12102020

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## PADS4 Installation Manual

# PADS4 Introduction

PADS4 Installation Manual describes how to install PADS4.

The documentation is divided in chapters which describe the steps to take for installing or updating a PADS4 System.

## Online PADS4 resources website

Checkout the online PADS4 resources website <https://pads4.com/resources>.

Here you can find useful resources to make sure you always have the most recent software and documentation.

## System requirements

[What are the system requirements](#)

## PADS4 System Configuration

[PADS4 Configuration Selection](#)

## Installation of a new PADS4 System

[How to install PADS4 Server](#)

[How to install PADS4 Windows Client applications](#)

[How to install PADS4 Viewer](#)

[How to install PADS4 Sub Server](#)

[PADS4 Foundation Configuration](#)

[PADS4 Configuration selection](#)

## Updating an existing PADS4 System

[How to update PADS4 Server](#)

[How to update PADS4 Windows Client applications](#)

[How to update PADS4 Viewer](#)

[How to update PADS4 Sub Server](#)



## Installation of a PADS4 HTML5 Launcher

[How to install PADS4 HTML5 Launcher on Android devices](#)

[How to install PADS4 HTML5 Viewer on SOC devices](#)

## 2020.1 is the first release of a new platform

Until version 2020.1 PADS4 contained a PADS4 web setup and full cd setup. All components both server and client were available in this setup.

With the new PADS4 2020.1 we introduce a new web based version of PADS4. When installing PADS4, you can have both a web based portal and Windows Client Applications such as PADS4 Designer, PADS4 Scheduler, PADS4 Viewer, PADS4 Messenger, PADS4 Desktop Viewer, PADS4 Content Library Manager.

## Migration period

In the upcoming year we will add new functionality so that eventually we have all the windows based functionality available in the PADS4 CTRL Center web portal.

2020.1 contains a first new web based version of PADS4 and needs a different approach. Because we also want to support the current windows based applications for our customers, the installation process is splitted into 2 separate installations. 1 for the Server side and 1 for the Clients.



## PADS4 Installation Manual

## **PADS4 online resources website**

Checkout the online PADS4 resources website <https://pads4.com/resources>.

Here you can find useful resources to make sure you always have the most recent software and documentation.



## **PADS4 Installation Manual**

# System Requirements

PADS4 CTRL Center is a web based management portal on top of PADS4 Foundation and is able to control a PADS4 system via the web browser. Most common browsers are supported.

For now the PADS4 Clients setup co-exists with the PADS4 Foundation setup. Do note that a valid SMA is required to the use new functionality.

## PADS4 Windows applications and PADS4 CTRL Center

PADS4 CTRL Center can be used together with the PADS4 Windows based applications such as the PADS4 Scheduler, PADS4 System Management, PADS4 Agent and all other Windows based applications.

The user is able to start one or more Windows based PADS4 applications (depending on the licenses assigned), and at the same time open the PADS4 CTRL Center portal using the same user credentials.

## Requirements PADS4 Foundation & CTRL Center

- **PADS4 version 4.12 or higher must be installed before installing PADS4 CTRL Center**
- **Minimum 4 GB, 2 cores**
- **Recommended 8 GB, 4 cores**
- **Full installation size 819Mb**
- **OS: Windows 7 SP1, Windows 8.1, Windows 10, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019. Note: 64-bit OS is supported**

## Prerequisites PADS4 Foundation

PADS4 Foundation will install all prerequisites.

- NDS Package Manager  
Small installation tool made by NDS, which is used to install, update or remove the PADS4 CTRL Center. When this tool is uninstalled, you won't be able to uninstall PADS4 CTRL Center.
- Microsoft .NET Core Runtime 2.2.6 & Microsoft ASP.NET Core 2.2.6 – Shared Framework  
The new PADS4 middleware services used by the PADS4 CTRL Center, make use of the .NET Core frameworks
- Erlang OTP 2.0 (9.3) & RabbitMQ Server 3.7.8  
When uninstalling manually make sure that, you first uninstall RabbitMQ and then Erlang
- NGINX webserver

Prerequisites that require internet connection for downloading

- Microsoft .NET Framework 4.6.2 (needs internet connection to download)  
Framework component is most likely to be available on all systems. If on a certain old system this component is missing, PADS4 will try to download it from the internet.
- Powershell 3.0 which is available on all windows operation systems except Windows 7 for which PADS4 will try to download it from the internet..

**All prerequisites are available in the setup except for .Net framework 4.6.2 & Powershell 3.0.**



## **PADS4 certified Viewer devices**

This section contains all certified PADS4 Viewer devices available (alphabetical sorted).

These devices are tested with every new release of PADS4.

### **Manufactures (sorted)**

AOpen

BenQ

Brightsign

Chrome Web Browser (testing purposes)

ELO

Giada

ladea

LG

Microsoft Windows

Philips

ProDVX

Qbic

Samsung



## PADS4 Installation Manual

### PADS4 Configuration Selection

PADS4 allows you to fully integrate a new setup for your digital signage solution. With a standardized overview of your schedules, Content Library & viewer operation (PADS4 CTRL Center), you can create a multitude of narrowcasting implementations for you & your clients.

For more information about initial setup & configuration, you can look at the PADS4 instructional manual <http://go.pads4.com/?fwlink=1100>.

NOTE: Currently we are working on upgrading this manual.

You can choose from different configurations:

#### **Standalone**

(Page 13) Explains a standalone configuration where all PADS4 applications will be installed on one single PC.

#### **Network**

(Page 14) Explains a network configuration where PADS4 applications will be installed on multiple PCs to form one installation.

#### **Global (large) Network**

(Page 16) Explains a worldwide network configuration which is global or has a large configuration (read has a lot of viewers connected) where the content library bandwidth is limited.

Contact your local supplier / business representative for a licensed PADS4 product-key, and we will inform you further with a manual, the Foundation & Clients installation files.



## **PADS4 Installation Manual**

### **PADS4 Configuration Selection**

PADS4 allows you to fully integrate a new setup for your digital signage solution. With a standardized overview of your schedules, Content Library & viewer operation (PADS4 CTRL Center), you can create a multitude of narrowcasting implementations for you & your clients.

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## PADS4 Installation Manual

### PADS4 Hardware requirements

#### General performance tips

Disk Synchronisation of content is one of the processes that has a big performance impact on the server

Usage of Solid State Disks (SSD) significantly improves server performance

Be aware that virus scanners can have a big impact on the performance related to synchronization of content and processes.

Each content file will be scanned by virus scanners each time it has to be synchronized to Viewers or sub/backup servers.

Virus scanners Data sent towards Viewers will be scanned and could cause a performance drop and/or Server CPU load.

\* Exclude the PADS4 content folders from scanning (c:\programdata\pads4) to improve the synchronization process and lower the CPU usage.

\* Exclude PADS4 processes from scanning

Virtual Server	<p>When using a virtual network, <b>make sure you use a static Mac address.</b></p> <p>A dynamic MAC address will negatively impact the PADS4 License mechanism during a PADS4 Server restart which may result in a required reactivation.</p>
Network	<p>Best performance will be reached when the network is stable, 100Mbps or faster, <b>1Gbit network preferred</b></p>
Content storage space	<p>Content storage size depends on customer's requirement and will have impact on bandwidth used.</p> <p><b>Usage of SSD storage devices can increase performance dramatically for both server and Viewer.</b></p>
Content	<p>Please convert 4K Videos and 4K images which are shown on Full HD displays back to the specs of the displays to improve performance on both network and visualization.</p>
Content permissions	<p>Use content permissions to limit the synchronization of content send to certain Viewer groups and/or User groups.</p> <p><b>This prevents content from being synched with devices which will never show the content.</b></p> <p>Try to limit the amount of data retrieved using data providers for both memory usage and performance drops.</p> <p><b>Only retrieve the information from the data source that is going to be used to prevent high bandwidth usage.</b></p>
Data Server	<p>Limit the number of rows, or the columns used to only get what is used by the presentation.</p> <p><b>Do not specify small Data Provider read intervals when the data is not updated real-time.</b></p> <p>Prevent small read intervals that will increase cpu usage when there is no need to read the information continuously.</p>

## PADS4 Foundation hardware requirements

Be aware that hardware requirements depend on the purpose of the system. Situations where static information is shown requires less resources than full multimedia solutions.

<b>PADS4 System with &lt;100 Viewers</b>	CPU	2 cores
	Memory	4Gb, Static dedicated RAM with VM
	Application storage	2Gb
	Content storage	16Gb. depends on customer requirements
	Minimum OS	Windows 10, 64bit



Recommended OS	Windows Server 2016, 64bit
Data Server	maximum of 25 Data Providers
Disk	Disk performance has a big impact on the overall PADS4 system performance

**PADS4 System with 100-500 Viewers**

CPU	4 cores
Memory	6Gb, Static dedicated RAM with VM
Application storage	2Gb
Content storage	32Gb. depends on customer requirements
Minimum OS	Windows 10, 64bit
Recommended OS	Windows Server 2016, 64bit
Data Server	maximum of 25 Data Providers
Disk	Disk performance has a big impact on the overall PADS4 system performance

**PADS4 System with 500 Viewers**

CPU	4 cores
Memory	8Gb, Static dedicated RAM with VM
Application storage	2Gb
Content storage	64Gb. depends on customer requirements
Minimum OS	Windows 10, 64bit
Recommended OS	Windows Server 2016, 64bit
Data Server	maximum of 100 Data Providers
Disk	Disk performance has a big impact on the overall PADS4 system performance

**PADS4 System with 1000 Viewers**

CPU	4 cores
-----	---------

Memory	12Gb, Static dedicated RAM with VM
Application storage	2Gb
Content storage	256Gb. depends on customer requirements
Minimum OS	Windows 10, 64bit
Recommended OS	Windows Server 2016, 64bit
Data Server	maximum of 200 Data Providers
Disk	Disk performance has a big impact on the overall PADS4 system performance

### PADS4 System with 1000+ Viewers

When using more than 1000 Viewers, check the possibility to use [PADS4 Backup servers](#) and [PADS4 Sub Servers](#) for load balancing which can improve the performance of the total system, especially when you have more physical locations this can improve the content synchronization to use less bandwidth.

More information about system configuration can be found [here](#).

## PADS4 Viewer hardware requirements

### PADS4 Microsoft Windows Viewer Minimum specs

CPU	2 cores
Memory	2Gb
Application storage	2Gb
Content storage	16Gb. depends on customer requirements
Recommended OS	Windows 7 SP1
Data Providers	maximum of 25 active local Data Providers

	Disk	Disk performance has a big impact on the overall PADS4 system performance
<b>PADS4 Microsoft Windows Viewer Recommended specs</b>	CPU	4 cores
	Memory	4Gb
	Application storage	2Gb
	Content storage	128Gb. depends on customer requirements
	Recommended OS	Windows 10, 64bit
	Data Providers	maximum of 50 active local Data Providers
	Disk	Disk performance has a big impact on the overall PADS4 system performance
<b>PADS4 Microsoft Windows Viewer Full Multi-Media specs</b>	CPU	4 cores. Viewer that is running a full multi media presentation including videos and a lot of page/element effects
	Memory	6Gb
	Application storage	2Gb
	Content storage	256Gb. depends on customer requirements
	Recommended OS	Windows 10, 64bit
	Data Providers	maximum of 50 active local Data Providers
	Disk	Disk performance has a big impact on the overall PADS4 system performance
<b>PADS4 Android Viewer Recommended</b>	OS	Android 5.01 or higher
	Memory	4Gb
	Content storage	4Gb
	Data Providers	Data Providers are running on the PADS4 Server

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The information contained in this document is provided on an "as is" basis with no guarantees of completeness, accuracy, usefulness or timeliness..."



## PADS4 Installation Manual

### PADS4 Network Port Configuration

This page explains the usage of network ports by PADS4. Be aware that the port numbers mentioned are the default settings. Some ports can be adjusted.

The network communication between the components of the PADS4 system uses TCP/IP. PADS4 now uses one port number to communicate and by default it's 7237.

If you are using a firewall on the PADS4 [[[Undefined variable NDSVariables.ProductNameServer]]] PC this means that one or more of the above port numbers will have to be opened in order for PADS4 to communicate. On the client side (for instance the PADS4 [[[Undefined variable NDSVariables.ProductNameViewer]]] PC) it's not necessary to open any port numbers in the firewall.

#### NOTE

PADS4 has built-in features to automatically detect a PADS4 Server in your network. However a PADS4 Server can only be automatically detected when the UDP port number 3702 is not blocked by a firewall on the server PC or somewhere else in the network.



## PADS4 Installation Manual

### Microsoft Active Directory Configuration

Many organizations use Microsoft Active Directory to centrally manage the user accounts of their employees. With the Active Directory connection of PADS4 you can make optimal use of this information.

#### NOTE

PADS4 can work with your existing Active Directory structure 'as it is' and doesn't require any adjustments to organizational units or user groups in Active Directory.

After setting up a connection with Active Directory, you can beside 'normal' PADS4 users create so-called LDAP users in PADS4. These users are automatically linked to user accounts in active directory. When a user logs on with an LDAP user name, then the PADS4 system will automatically use the credentials stored in Active Directory. When the user name or password of the user is changed in Active Directory this is automatically taken over by the PADS4 system. If a user account is disabled in Active Directory then the user can no longer logon to the PADS4 applications. When the user is removed from Active Directory it will also automatically be removed from the PADS4 system. If the credentials that you have specified for PADS4 server to access Active Directory have limited permissions, then the updates in Active Directory might not be taken over by PADS4 instantly, but will only become effective after a restart of the PADS4 Server.

Memberships of user groups, permissions and, license assignment are all done in PADS4 for all users, including LDAP users.

If an LDAP user is removed from PADS4, it will NOT be removed from Active Directory.

When the connection with Active Directory is disabled in PADS4, then the existing LDAP users that have been defined in PADS4 remain exist. This way, you can reuse them when you decide to enable Active Directory again at a later time.

### To configure the usage of Active Directory in PADS

1. Specify the Active Directory connection settings in the server settings window of PADS4 System Management.
2. Reboot the PADS4 Server to make the Active Directory connection settings effective.
3. Go to the Users window in PADS4 System Management and create one or more LDAP users. Make sure that the users are assigned to a user group and that you assign the right licenses.

After this the Active Directory connection is ready-to-use and users can logon with one of the specified LDAP user accounts.



## PADS4 Installation Manual

### Using Microsoft Windows Group Policies

Many organizations use Microsoft Group Policies to centrally manage settings for the users. With the Group Policies of Microsoft you can centrally manage the Desktop Viewer settings.

PADS4 has implemented group policies for the Desktop Viewer application to allow the administrator to specify the settings from a central location and push these settings towards 1 or more users or user groups. The policies set by the administrator are automatically detected by the Desktop Viewer options window and those options are disabled in the user interface. This way it is possible to push a set of predefined settings towards users, and still give them the opportunity to change some settings locally.

The pushed settings are stored in the registry under:

HKEY\_CURRENT\_USER\SOFTWARE\Policies\Net Display Systems\PADS4

The 'normal settings' are stored in the registry under:

HKEY\_CURRENT\_USER\SOFTWARE\Net Display Systems\PADS4

## To configure the usage of Group Policies for PADS4 Desktop Viewers

### Installation PADS4 Server

First Install PADS4 Server (or more components, but the policy files are installed along with the Server installation).

### Install Group Policy Template file

Copy PADS4.admx from C:\Program Files\Net Display Systems\PADS4\PolicyDefinitions to the Domain Policy Definitions directory on the domain server (usually: \\<FQDN>\SYSVOL\<FQDN>\Policies\PolicyDefinitions)

### Policy Translation File

Copy PADS4.adml from C:\Program Files\Net Display Systems\PADS4\PolicyDefinitions to the Domain Policy Definitions Language directory on the domain server (usually: \\<FQDN>\SYSVOL\<FQDN>\Policies\PolicyDefinitions\en-US)

### Microsoft Group Policy Management Console (GPMC)

Open the Group Policy Management Console application and next open the Group Policy Editor. Select User configuration / Policies / Administrative Templates: Policy definition / Net Display Systems / PADS4 / Desktop Viewer

PADS4 Property Table for the Desktop Viewer:

Setting	Options	Type	Description
PADS4 Backup Server	Backup Server Address	String	Name/IP address of the Backup PADS4 Server.
	Port Number	Number	Portnumber on which the PADS4 Server listens for incoming calls (default is 7237).
PADS4 Domain	Domain	String	Custom Domain (default is PADS).
Enable PADS4 Screensaver on startup	Screensaver timeout	Number	Interval in milliseconds after which the screensaver is started when the user did not hit the keyboard or mouse.
	Show logon screen on	Boolean	After the

	resume		screensaver is active and the user moves the mouse or hits the keyboard, the logon screen can be shown.
PADS4 Hostpath	Hostpath	String	The hostpath as specified in the PADS4 Server settings (default PADS4) which is used for the http synchronisation.
Http portnumber	HTTP port number	Number	Portnumber used for synchronisation and specified in the PADS4 Server settings (default is 8080).
Identification mode	Identification mode	Selection	Identification mode when connecting to the PADS4 Server.
User permissions	User can view messages	Boolean	User can open the messages window.
	User can open options window	Boolean	User can open the options window to change settings (not recommended with group policies).
	User can exit application	Boolean	User can exit the application.
	User can check for software updates	Boolean	User can check for software updates (not recommended with group policies).
	User can start screensaver	Boolean	User can change the screen saver settings.
Scale presentations to fit into the destination window	Scale presentations to fit into the destination window	Boolean	Resize the content to the window size.



	Maintain aspect ratio	Boolean	Preserve the aspect ratio.
PADS4 Server	Server Connection	Selection	Configures how the clients connect to the Server. When set to automatic the Server Address must be left empty.
	Server Address	String	Name/IP address of the PADS4 Server.
	Port Number	Number	Portnumber on which the PADS4 Server listens for incoming calls (default is 7237).
Content Library Synchronization	Synchronization Mode	Selection	When automatic is selected, the content is synchronized.
Content Library storage folder	Mode	Selection	When set to Manual specify the destination. Use variables like %APPDATA% to change the location to user specific folders.
	Content library folder	String	folder location where the PADS4 content library is located.
Tray icon appearance	Appearance	Selection	The way the Desktop Viewer is visible in the windows tray.
Use local timezone for scheduled presentations	Use local timezone for scheduled presentations	Boolean	Use the timezone of the local system for determining when to show a message.

## NOTE

This allows the administrator to specify the settings from a central location and push these settings towards users. The users are not able to override these settings using the Options Window. The options that are set/pushed by the administrator are disabled in the Desktop Viewer Options Window.



## PADS4 Installation Manual

### Using HTTPS

When secure network communication must be used, follow the steps to enable the HTTPS protocol.

[Click here to show the detailed HTTPS Installation upgrade document \(PDF\)](#)

First install PADS4 Foundation.

After installation, you can specify the required HTTPS settings.

The process of installing a trusted certificate requires that you purchase a trusted certificate from a certificate authority.



## **PADS4 Installation Manual**

### **PADS4 Backup Servers**



## **PADS4 Installation Manual**

### **PADS4 Sub Servers**



## **PADS4 Installation Manual**

## Global PADS4 installation

If there are situations where you want to limit the bandwidth, lower your PADS4 Server CPU usage or create local sub systems, this can be achieved by using the PADS4 Sub Server.

The PADS4 Sub Server is a special Server which will be connected to a PADS4 Main Server. The Sub Server will synchronize the database and control library with the PADS4 Main Server.

### Global Usage of PADS4

For instance when you have a head office in Europe, but have a lot of Viewers elsewhere, it is possible to setup a PADS4 Sub Server that will synchronize with the Main Server in Europe. Each PADS4 Server will synchronize with the (local) Sub Server instead of going directly to the Main Server. This will save a lot of traffic.

### Hardware limit

A second reason of using a PADS4Sub Server is for situations where the PADS4 Server hardware reaches it's limit.

### Backup system

A third reason can be to have a backup facility in case of system failure.

## PADS4 Server

Usually the following component is installed on the PADS4 Server PC of the PADS4 system:

- PADS4 Foundation

Optionally one or more client applications can be installed using PADS4 Clients installation

## Desktop PC

Usually the following components are used/installed on a desktop PC:

- PADS4 CTRL Center.  
This is the web based PADS4 solution. No installation of software is required to run this web app.
- PADS4 Designer (installation by using PADS4 Clients)

- PADS4 System Management (installation by using PADS4 Clients)
- PADS4 Agent (installation by using PADS4 Clients)
- PADS4 Scheduler (installation by using PADS4 Clients)
- PADS4 Messenger (installation by using PADS4 Clients)
- PADS4 Viewer (installation by using PADS4 Clients)
- PADS4 Desktop Viewer (installation by using PADS4 Clients)

### Sub Server PC

Usually the following components are installed on a Sub Server PC:

- PADS4 Foundation

The Sub Server is connected to the Main Server (or another Sub Server) and will synchronize the PADS4 database and content library. This way all the content will be transferred over the network from the headoffice to the sub location once. This will prevent the Viewers from synchronizing all the data directly over the network from the head office directly. There are options to synchronize only a subset of the content for each Sub Server using permissions.

#### NOTES

As a user you may connect to the PADS4 system through a Main Server or a Sub Server. From that Server you are able to watch the whole system as where you connected to the local Server.



## PADS4 Installation Manual



# What do I need to do to use Sensor module?

## Module Sensors

PADS4 contains a module Sensors which allows you to connect to Sensors using PADS4.

Licenses are required to enable this module which is already installed by default.

Please contact your dealer for Sensor Module & Sensor User license(s).

## Installing new purchased license

When licenses have been added to your current Product Key, or you retrieved a new Product Key, please follow the steps to activate the new licenses

Please check out the [How to enter PADS4 product key](#) page for more information about adding licenses.



## PADS4 Installation Manual

# What do I need to do to use FIDS module?

## Module FIDS

PADS4 contains a module FIDS which allows you to use the FIDS Operator using PADS4.

Licenses are required to enable this module which is already installed by default.

Please contact your dealer for FIDS Module & User license(s).

## Installing new purchased license

When licenses have been added to your current Product Key, or you retrieved a new Product Key, please follow the steps to activate the new licenses

Please check out the [How to enter PADS4 product key](#) page for more information about adding licenses.



## Install PADS4 System

This section explains how to install (parts of) the PADS4 System.





# **PADS4 Installation Manual**

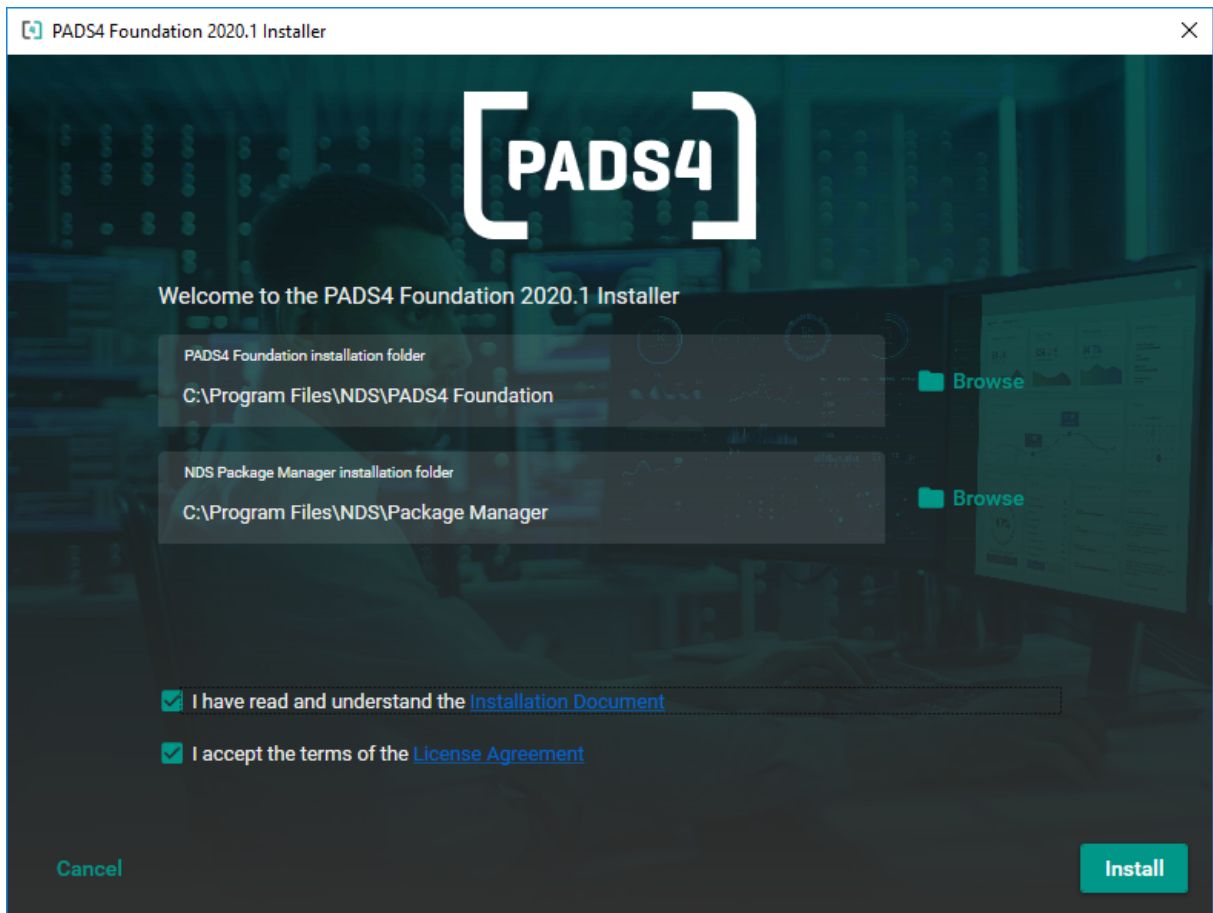
# How to install PADS4 Server

## Download the PADS4 Foundation Setup

Download PADS4 Foundation from <http://go.pads4.com/?fwlink=1010>

## Execute the installation file (as an Administrator)

Right click with the mouse on the installation file and select run as administrator.



Make sure to read the installation document and license agreement before checking the boxes and installing the software.

Installation folders

Change the installation folders if required.

PADS4 Foundation contains all the files required to run PADS4 on the Server.

NDS Package Manager is required and is used to maintain the components of PADS4 which have

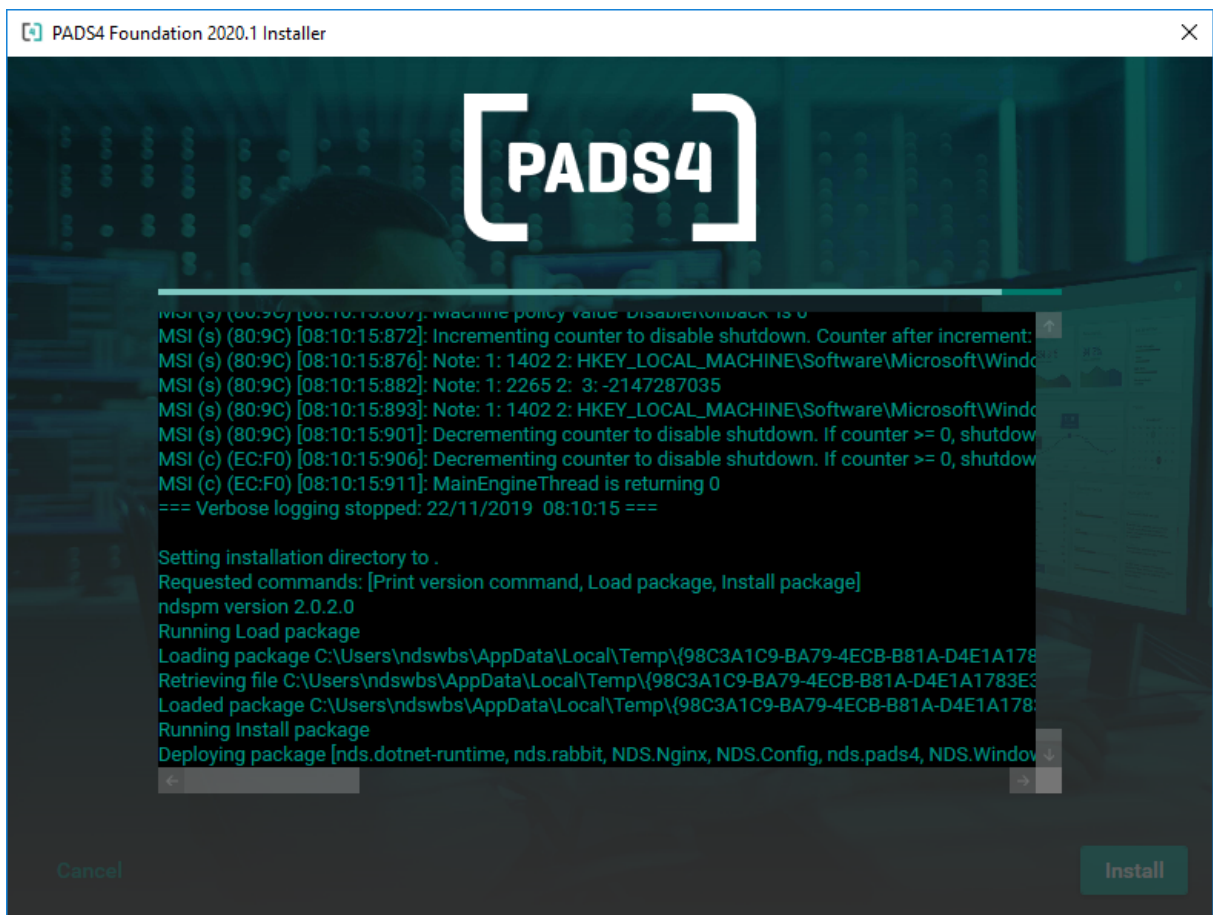
been divided into so called packages.

If the NDS Package Manager is not yet available on your PC, it will also be installed. You may change the installation folder.

If the NDS Package Manager is already installed, the installation folder destination folder option will be hidden.

Optionally change the installation folder if required.

**Check the boxes to confirm and press Install to start the installation process.**



The installation process will start and show the progress as in the picture above.

### **Error during installation**

In case an error occurs a pop up window will occur. This pop up contains a click [HERE](#) link to the log file created.

If you encounter any problems this log file can be of help to investigate the cause of the problem. Every step of the installation process is written to this log.

Error information:



## Failed to install PADS4 Foundation.

PADS4 Foundation Package failed with error code: [-1]

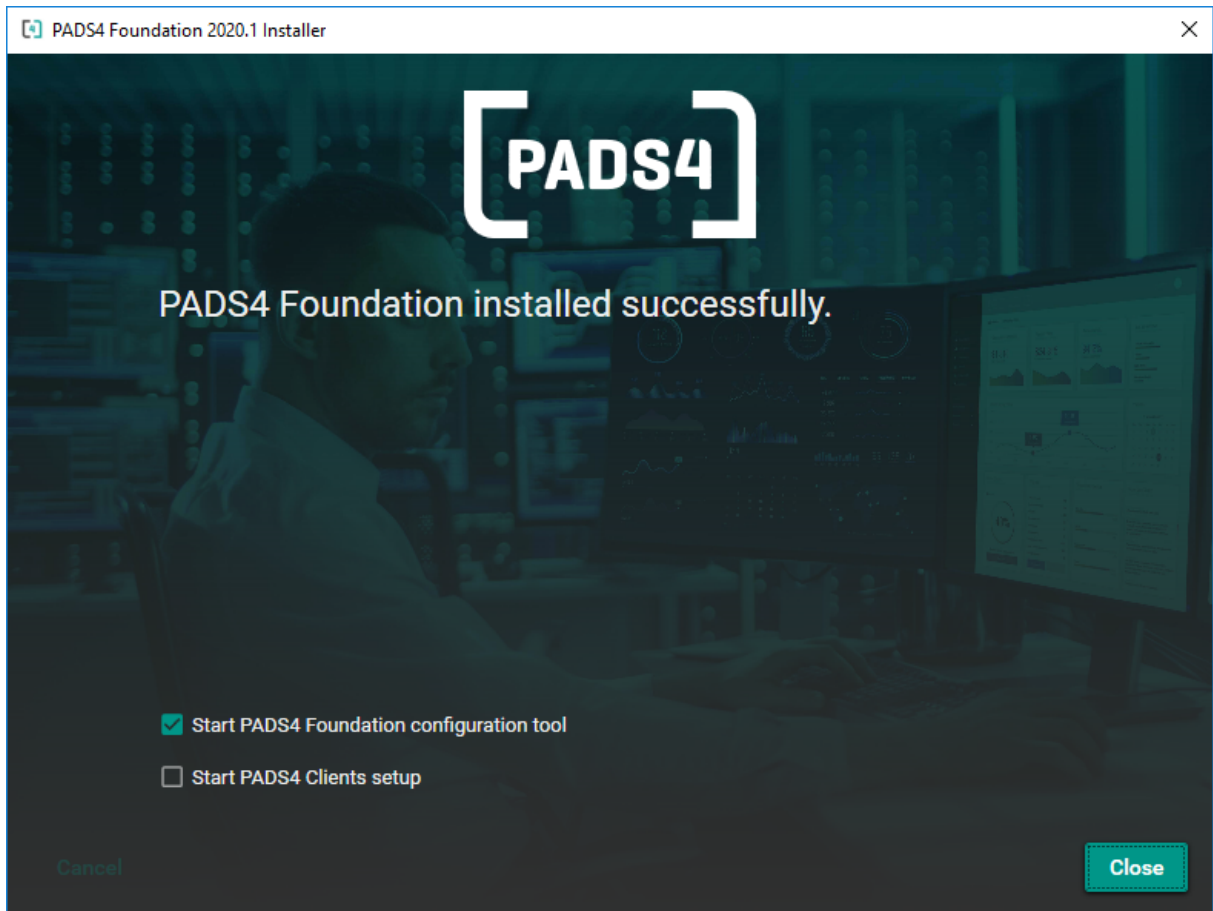
Package deployment failed  
Operation Install package failed  
Error occurred while running application  
NDS.PackageManager.Lib.Exceptions.FileLockException: Failed to lock file C:\Program Files\NDS\PAD

Click [HERE](#) to open the installation log.

Cancel

Close

## Installation finished



When the installation is finished, you should see the PADS4 Foundation installed successfully message as in the picture above.

### **Start PADS4 Foundation configuration tool**

Check the box if you would like to specify configurations settings. If you start the PADS4 Foundation setup the first time, please check the settings.

Check out the "PADS4 Foundation Configuration" on page 356 page which contains details about the settings

### **Start PADS4 Clients setup**

If you would like to install additional Windows based PADS4 programs on this PC such as PADS4 Scheduler, PADS4 Designer etc. check the box to start the setup after the PADS4 Foundation installation has been completed. This setup allows you to select which Windows based client components need to be installed.

Check out the "How to install PADS4 Windows Client applications" on page 343 page which contains details about the settings

Once you press the Close button, you will be presented with the PADS4 CTRL Center Configuration tool and/or the PADS4 Clients installation wizard.

### Network ports used by PADS4

Check out the [Network Ports Configurations page](#) for more information about network ports used by PADS4.

### Change Sensor database

Option to change the type of database used for storage of sensor data. Click [here](#) to show more information.

### Important

It is of vital importance that **you do not install the PADS4 Foundation on a workstation / Viewer PC (that is only configured for Designer/Scheduler/Content Organizer/Messenger etc.)**. This will install PADS4 Server functionality on your workstation / Viewer PC, as this would result in setting up the configuration as a Server PC. It is however possible to install the PADS4 Clients software after installing the PADS4 Foundation installation as the machine is then already classified as a Server PC.



## PADS4 Installation Manual

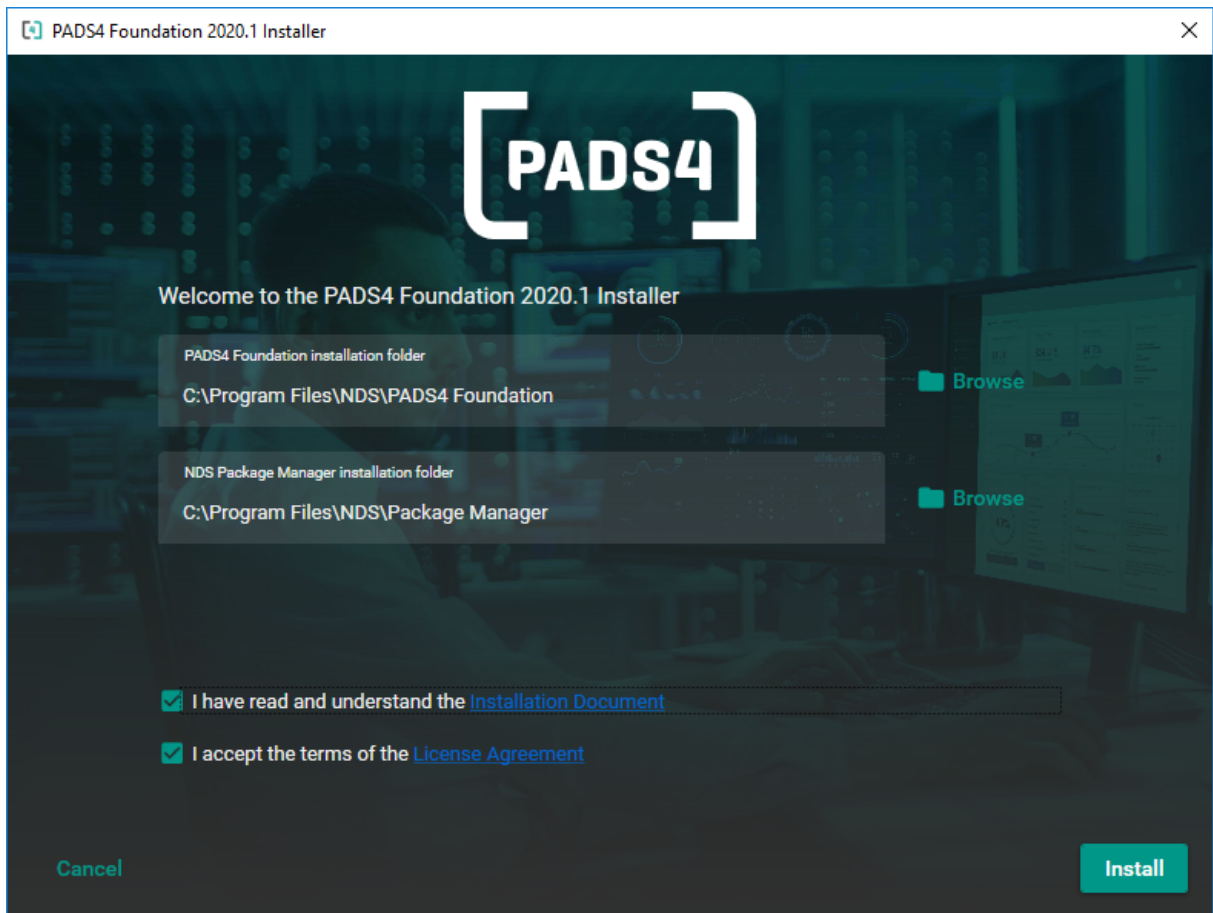
# How to install PADS4 Sub Server

## Download the PADS4 Foundation Setup

Download PADS4 Foundation from <http://go.pads4.com/?fwlink=1010>

## Execute the installation file (as an Administrator)

Right click with the mouse on the installation file and select run as administrator.



Make sure to read the installation document and license agreement before checking the boxes and installing the software.

## Installation folders

Change the installation folders if required.

## PADS4 Foundation

PADS4 Foundation contains all the files required to run PADS4 on the Server.

## NDS Package Manager

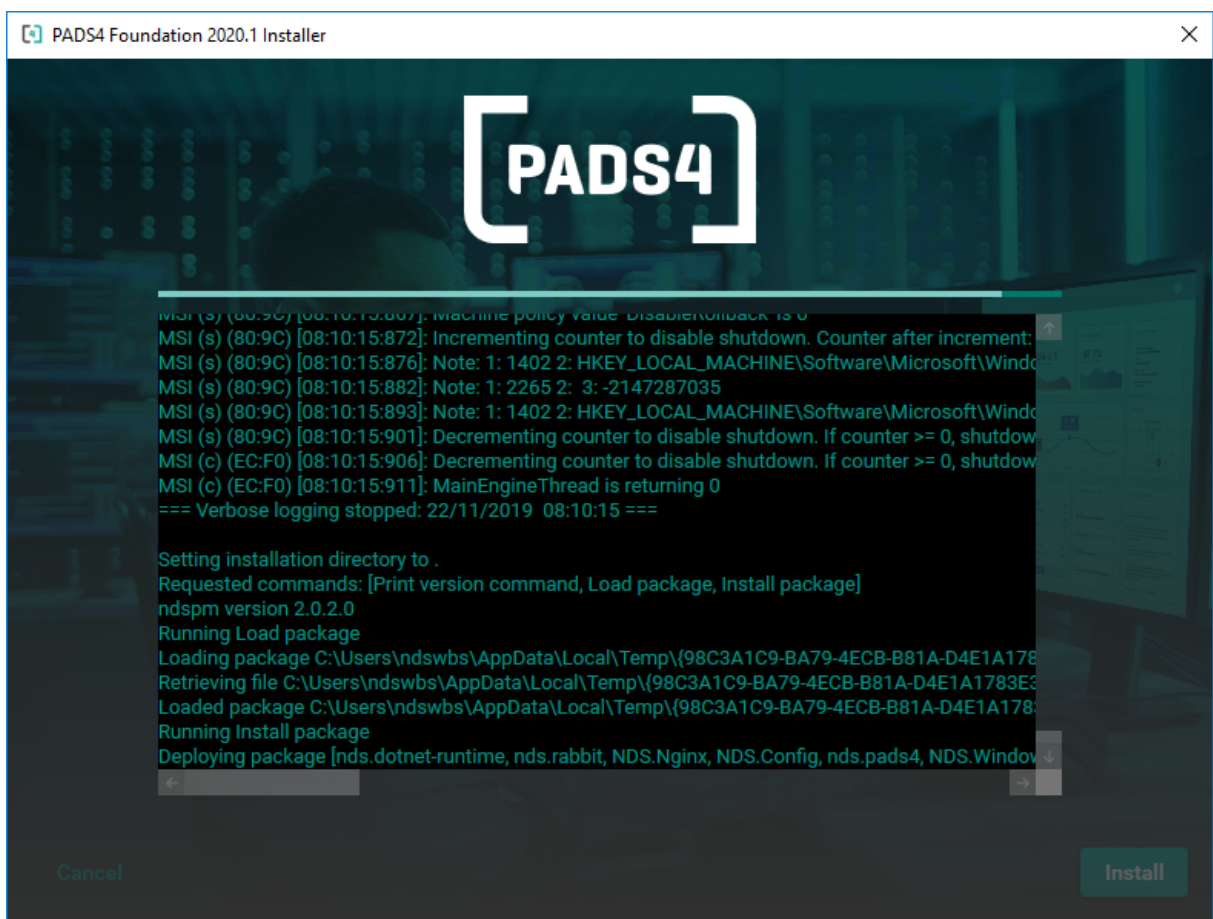
NDS Package Manager manages the installed packages.

If the NDS Package Manager is not yet available on your PC, it will also be installed.

If the NDS Package Manager is already installed, the installation folder option will be hidden.

## Accept to start installation

Check the boxes to confirm and press Install to start the installation process.



The installation process will start and show the progress as in the picture above.

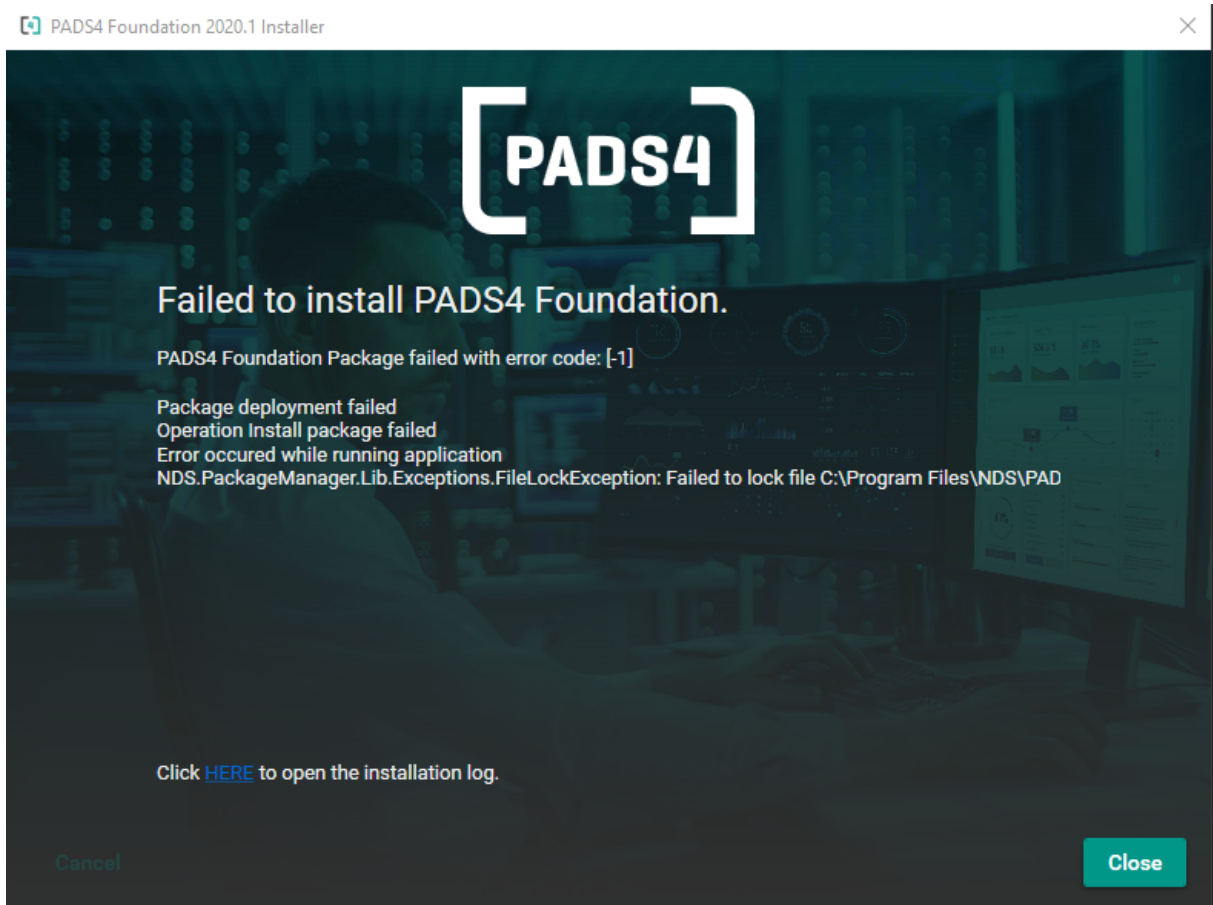


## Error during installation

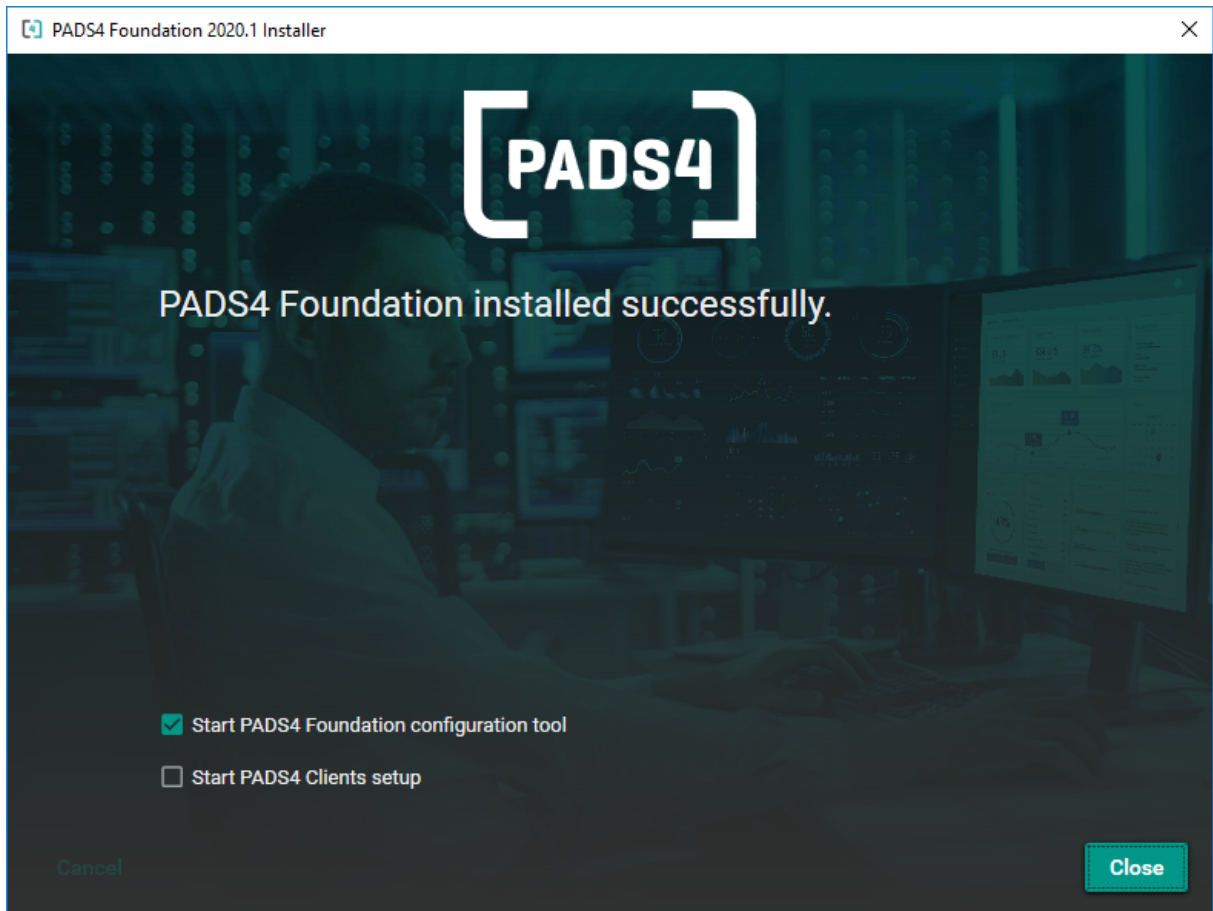
In case an error occurs a pop up window will occur. This pop up contains a click [HERE](#) link to the log file created.

If you encounter any problems this log file can be of help to investigate the cause of the problem. Every step of the installation process is written to this log.

Error information:



## Installation finished



When the installation is finished, you should see the PADS4 Foundation installed successfully message as in the picture above.

### **Start PADS4 Foundation configuration tool**

Check the box if you would like to specify configurations settings. If you start the PADS4 Foundation setup the first time, please check the settings.

Check out the "PADS4 Foundation Configuration" on page 356 page which contains details about the settings

### **Start PADS4 Clients setup**

If you would like to install additional Windows based PADS4 programs on this PC such as PADS4 Scheduler, PADS4 Designer etc. check the box to start the setup after the PADS4 Foundation installation has been completed. This setup allows you to select which Windows based client components need to be installed.

Check out the "How to install PADS4 Windows Client applications" on page 343 page which contains details about the settings

Once you press the Close button, you will be presented with the PADS4 CTRL Center Configuration tool and/or the PADS4 Clients installation wizard.

### Configuration of Sub Server

Start PADS4 System Management application on the PADS4 Main Server to configure the installed Sub Server.

- Select Servers from the left menu
- Click on Add Sub Server in the ribbonbar on top
- Fill in a name to be displayed in the Agent for this Sub Server
- Specify network settings for the Main Server to connect to the Sub Server
- Do not forget to add a license for this Server

For additional information please check the manual of the PADS4 Scheduler which can be installed during Windows Clients installation.

### Network ports used by PADS4

Check out the [Network Ports Configurations](#) page for more information about network ports used by PADS4.

### Important

It is of vital importance that **you do not install the PADS4 Foundation on a workstation / Viewer PC (that is only configured for Designer/Scheduler/Content Organizer/Messenger etc.)**. This will install PADS4 Server functionality on your workstation / Viewer PC, as this would result in setting up the configuration as a Server PC. It is however possible to install the PADS4 Clients software after installing the PADS4 Foundation installation as the machine is then already classified as a Server PC.



## PADS4 Installation Manual



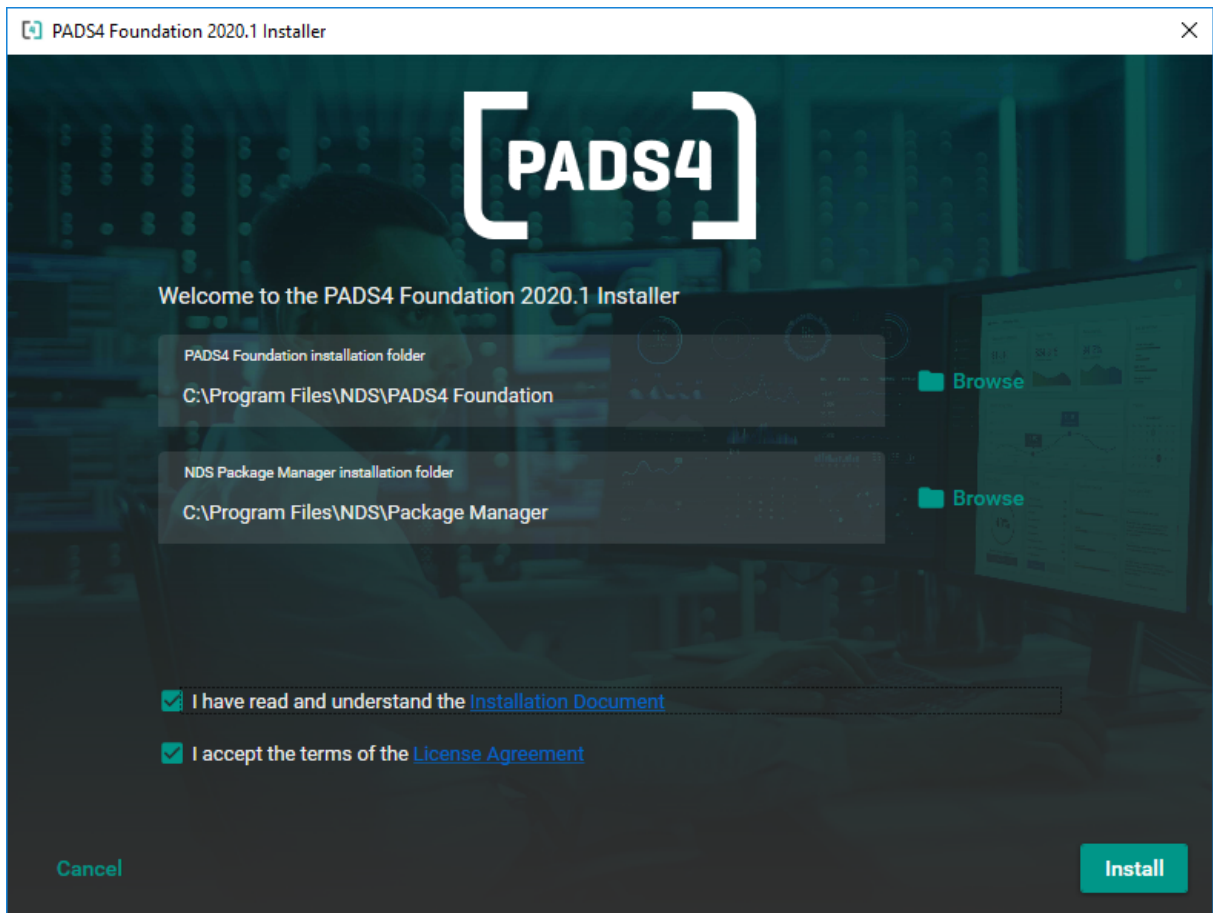
# How to install PADS4 Backup Server

## Download the PADS4 Foundation Setup

Download PADS4 Foundation from <http://go.pads4.com/?fwlink=1010>

## Execute the installation file (as an Administrator)

Right click with the mouse on the installation file and select run as administrator.



Make sure to read the installation document and license agreement before checking the boxes and installing the software.

## Installation folders

Change the installation folders if required.

## PADS4 Foundation

PADS4 Foundation contains all the files required to run PADS4 on the Server.

## NDS Package Manager

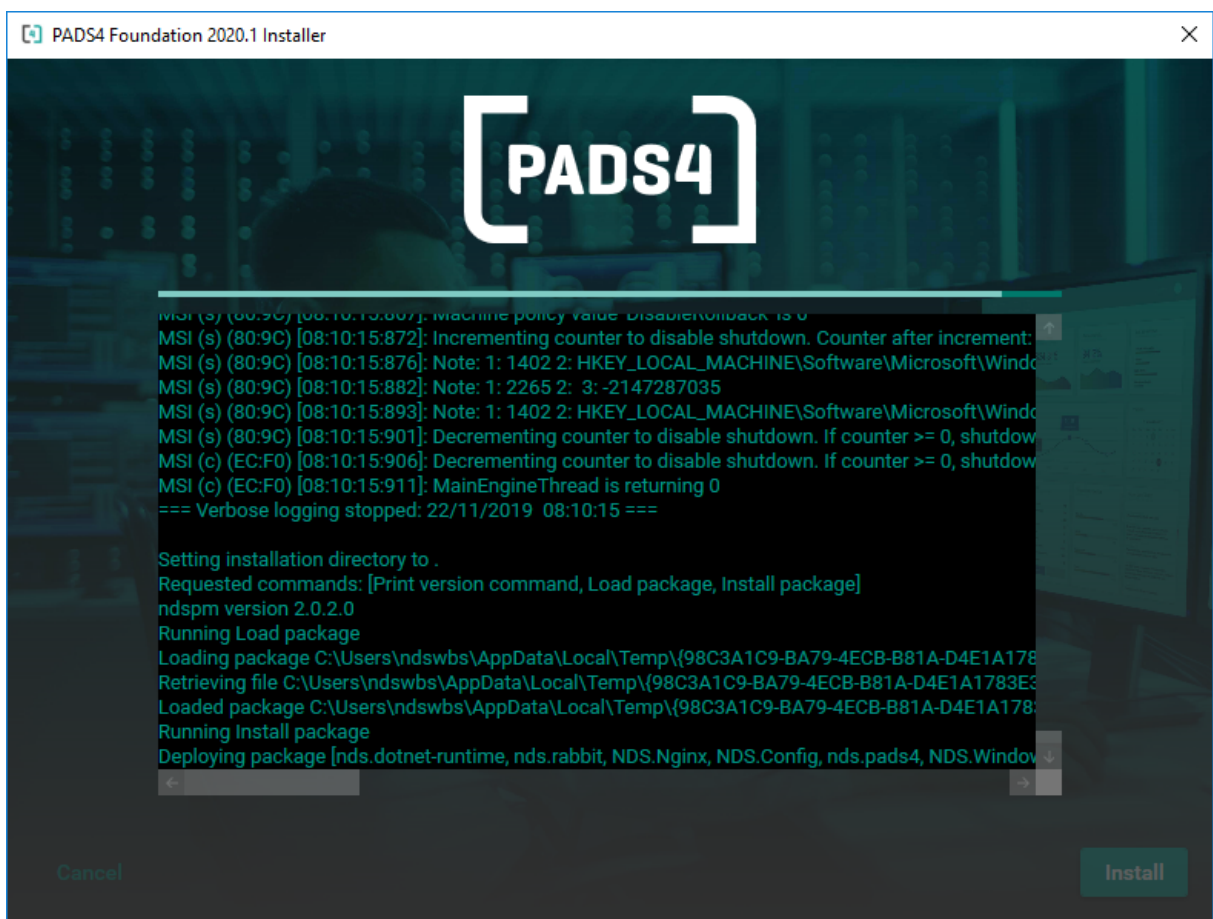
NDS Package Manager manages the installed packages.

If the NDS Package Manager is not yet available on your PC, it will also be installed.

If the NDS Package Manager is already installed, the installation folder option will be hidden.

## Accept to start installation

Check the boxes to confirm and press Install to start the installation process.



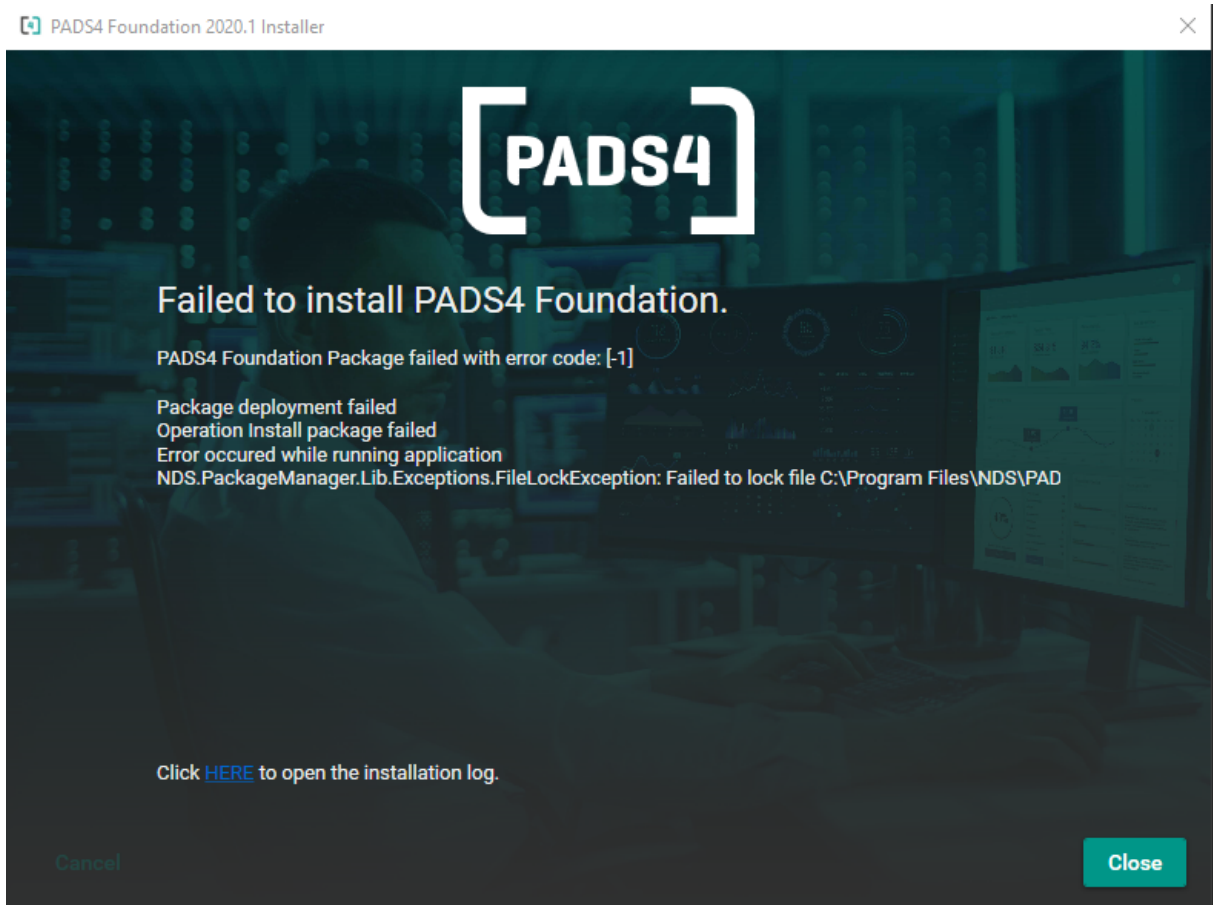
The installation process will start and show the progress as in the picture above.

## Error during installation

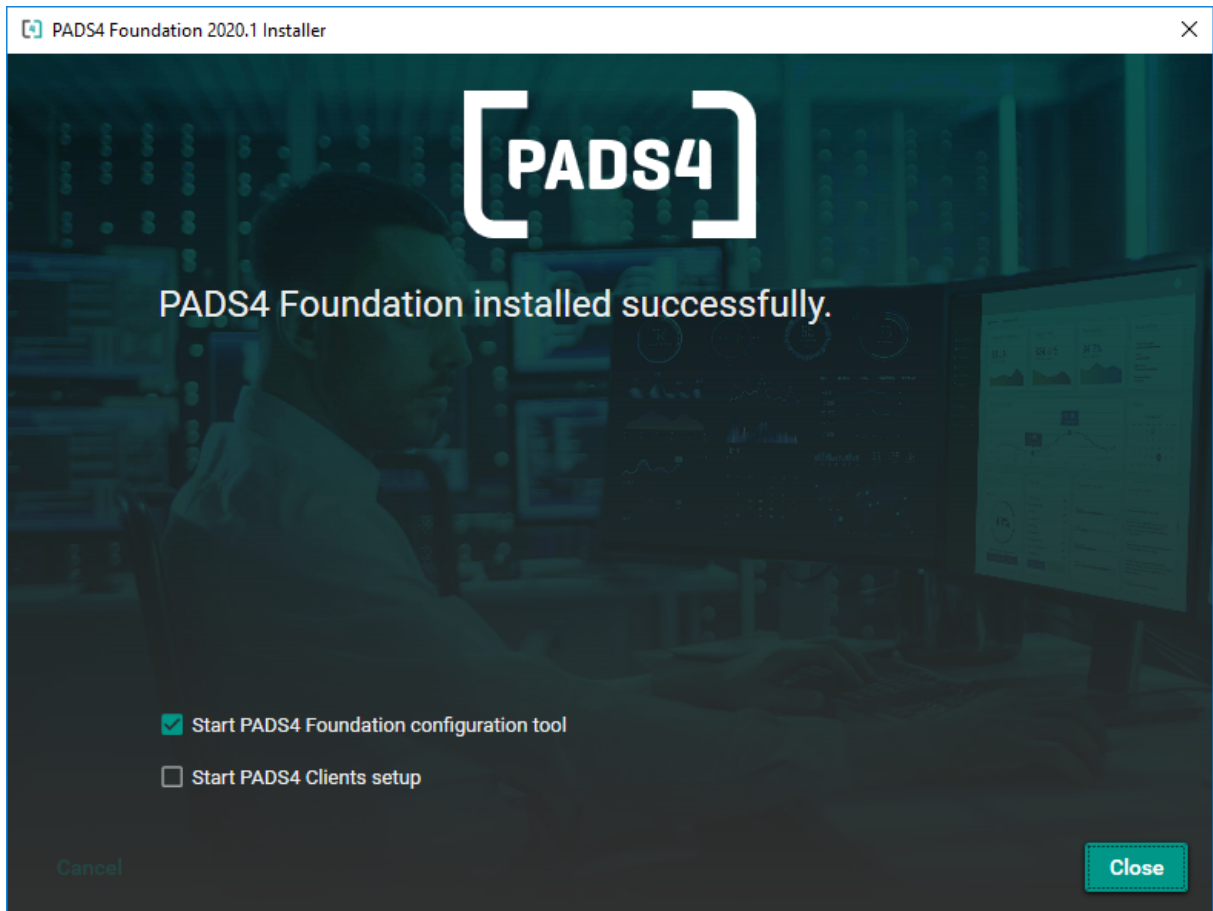
In case an error occurs a pop up window will occur. This pop up contains a click [HERE](#) link to the log file created.

If you encounter any problems this log file can be of help to investigate the cause of the problem. Every step of the installation process is written to this log.

Error information:



## Installation finished



When the installation is finished, you should see the PADS4 Foundation installed successfully message as in the picture above.

### **Start PADS4 Foundation configuration tool**

Check the box if you would like to specify configurations settings. If you start the PADS4 Foundation setup the first time, please check the settings.

Check out the "PADS4 Foundation Configuration" on page 356 page which contains details about the settings

### **Start PADS4 Clients setup**

If you would like to install additional Windows based PADS4 programs on this PC such as PADS4 Scheduler, PADS4 Designer etc. check the box to start the setup after the PADS4 Foundation installation has been completed. This setup allows you to select which Windows based client components need to be installed.

Check out the "How to install PADS4 Windows Client applications" on page 343 page which contains details about the settings



Once you press the Close button, you will be presented with the PADS4 CTRL Center Configuration tool and/or the PADS4 Clients installation wizard.

### Configuration of Backup Server

Start PADS4 System Management application on the PADS4 Main Server to configure the installed Backup Server.

- Select Servers from the left menu
- Click on Add Backup Server in the ribbonbar on top
- Fill in a name to be displayed in the Agent for this Backup Server
- Specify network settings for the Main Server to connect to the Backup Server
- Do not forget to add a license for this Server

For additional information please check the manual of PADS4 System Management which can be installed during Windows Clients installation.

### Network ports used by PADS4

Check out the [Network Ports Configurations](#) page for more information about network ports used by PADS4.

### Important

It is of vital importance that **you do not install the PADS4 Foundation on a workstation / Viewer PC (that is only configured for Designer/Scheduler/Content Organizer/Messenger etc.)**. This will install PADS4 Server functionality on your workstation / Viewer PC, as this would result in setting up the configuration as a Server PC. It is however possible to install the PADS4 Clients software after installing the PADS4 Foundation installation as the machine is then already classified as a Server PC.



## PADS4 Installation Manual



# How to enter the PADS4 Product Key

Please follow the following steps to activate the PADS4 product with the provided PADS4 Product Key.

## Open PADS4 CTRL Center

After PADS4 has been installed, start PADS4 CTRL Center.  
PADS4 CTRL Center help can be found [here](#).

## Installing PADS4 Product Key from PADS4 CTRL Center

- Open Licenses from the menu on the left.
- Fill in the Product Key provided by your partner or continue the process using the current key when additional licenses have been added to your current Product Key.
- Press the **Activate** button on top to Activate or Reactivate

If there is no internet connection available, an offline reactivation method will become visible.  
Please follow the steps.

After a License File is send to you, please click on the Upload License file button on top of this page and select the License File.

- Follow the wizard to complete the process.



## PADS4 Installation Manual

# PADS4 Foundation Configuration

PADS4 Foundation Configuration allows you to specify configuration settings.

**PADS4 FOUNDATION CONFIGURATION**

**PADS4 Server**

HTTP Port: 9005 + -

IP address: 127.0.0.1

**PADS4 Foundation**

HTTP Port: 81 + -

HTTPS Port (SSL): + -

DNS Host Name: \_\_\_\_\_

Certificate file: \_\_\_\_\_ ...

Private Key file: \_\_\_\_\_ ...

Apply

Here you are able to specify the ports that PADS4 should be operating on and the IP address of your PADS4 Server PC and press apply when configuration is as desired.

## PADS4 Server

- HTTP Port  
The port used to communicate with the PADS4 Server (default is 9005)
- IP address  
By default the IP address of PADS4 Server is localhost (127.0.0.1). Normally PADS4 Foundation and PADS4 Server are located on the same PC.

## PADS4 Foundation

- HTTP Port  
The HTTP port used to host the PADS4 CTRL Center (default is 80)
- HTTPS Port (SSL)

The security certificate for using the PADS4 CTRL Center with SSL

- DNS Host Name Domain which is registered
- Certificate file .certificate file
- Private Key file .private file

**When all settings are successfully applied after click apply, PADS4 Foundation will restart all processes with the new settings.**

**Tip: Default username and password after installation is for both "user1"**

Please change this after the first logon using the account icon on the right top of the webportal.

Be aware that it may take up to 30 seconds based on your hardware specs to restart all processes.

### Sensor database type selection

Click [here](#) to show the Sensor database type selection page.

### Check out if the server is running

If you want to verify that the PADS4 server is running, perform the following check.

Open a webbrowser and specify "http(s)://localhost:<port>". Use https or http based on you settings. Specify the right port number as specified.

The logon page of PADS4 CTRL Center should occur.

### PADS4 Clients installation help

Check out the "How to upgrade PADS4 Windows Client applications" on page 363 page for installation instructions on.



## PADS4 Installation Manual

## Sensor database type selection

By default SQLite is used as database for storage of Sensor data.

**Be aware that changing database type will erase all existing data.**

### Change database type from configuration tool

Select Sensor database from configuration tool window.

### Change database type manually

start NDS.DataStorage.ConfigurationTool.exe from PADS4 installation program files folder (default C:\Program Files\NDS\PADS4 Foundation\NDS.DataStorage.ConfigurationTool)

### Database types supported

Supported database types are:

- SQLite
- SQL Server
- ProgreSQL
- MongoDB

The databases are open for export of data if required by third party software.



## Install PADS4 Viewer

This section explains how to install PADS4 Viewer(s).



## **PADS4 Installation Manual**

# How to install PADS4 Viewer

## Download

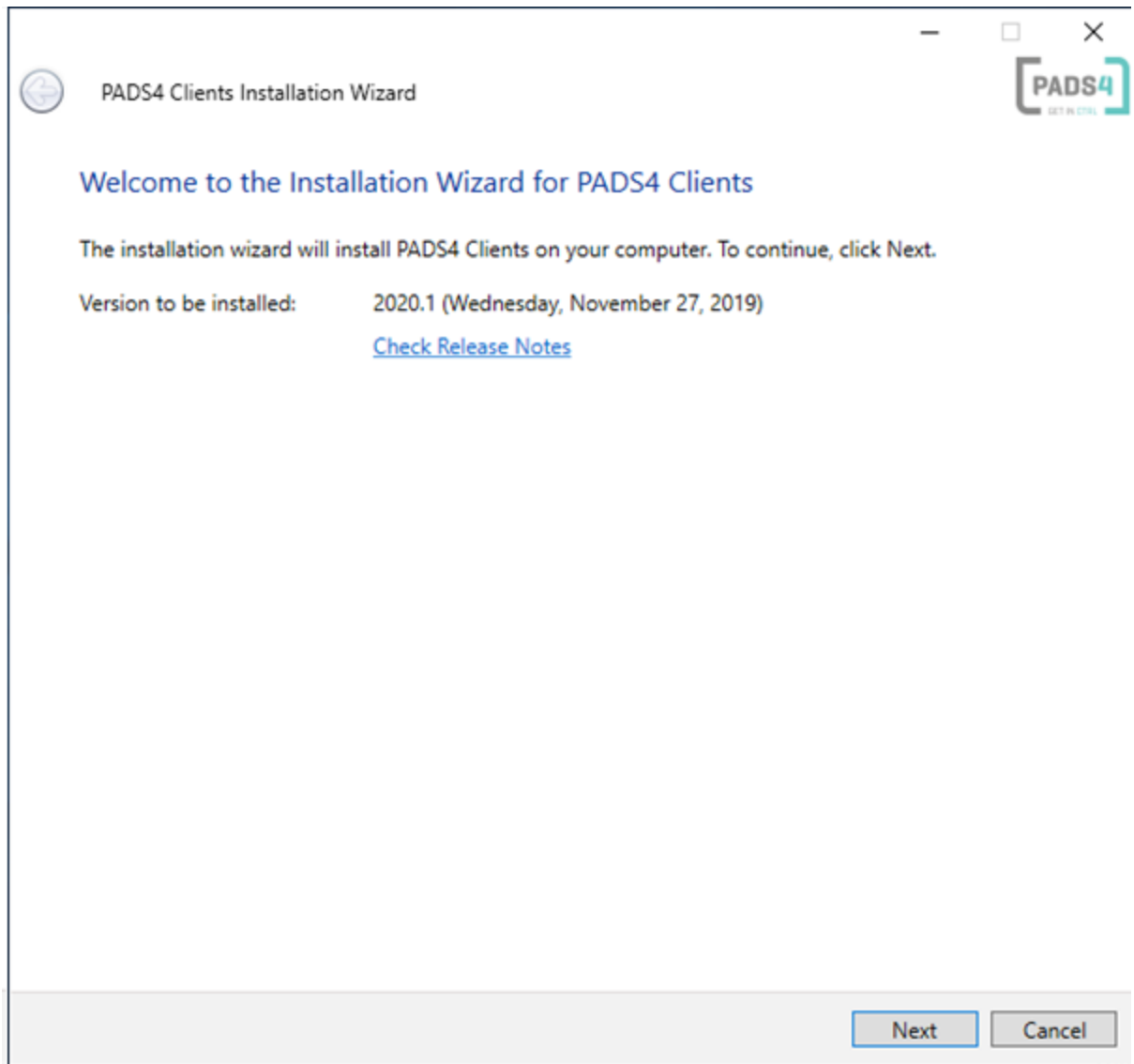
Download PADS4 Clients from <http://go.pads4.com/?fwlink=1011>

## Start setup

Execute the PADS4 Clients.exe installation file as an Administrator and choose one of the available languages.

Check and verify that **PADS4 Version 2020.1** is being installed.



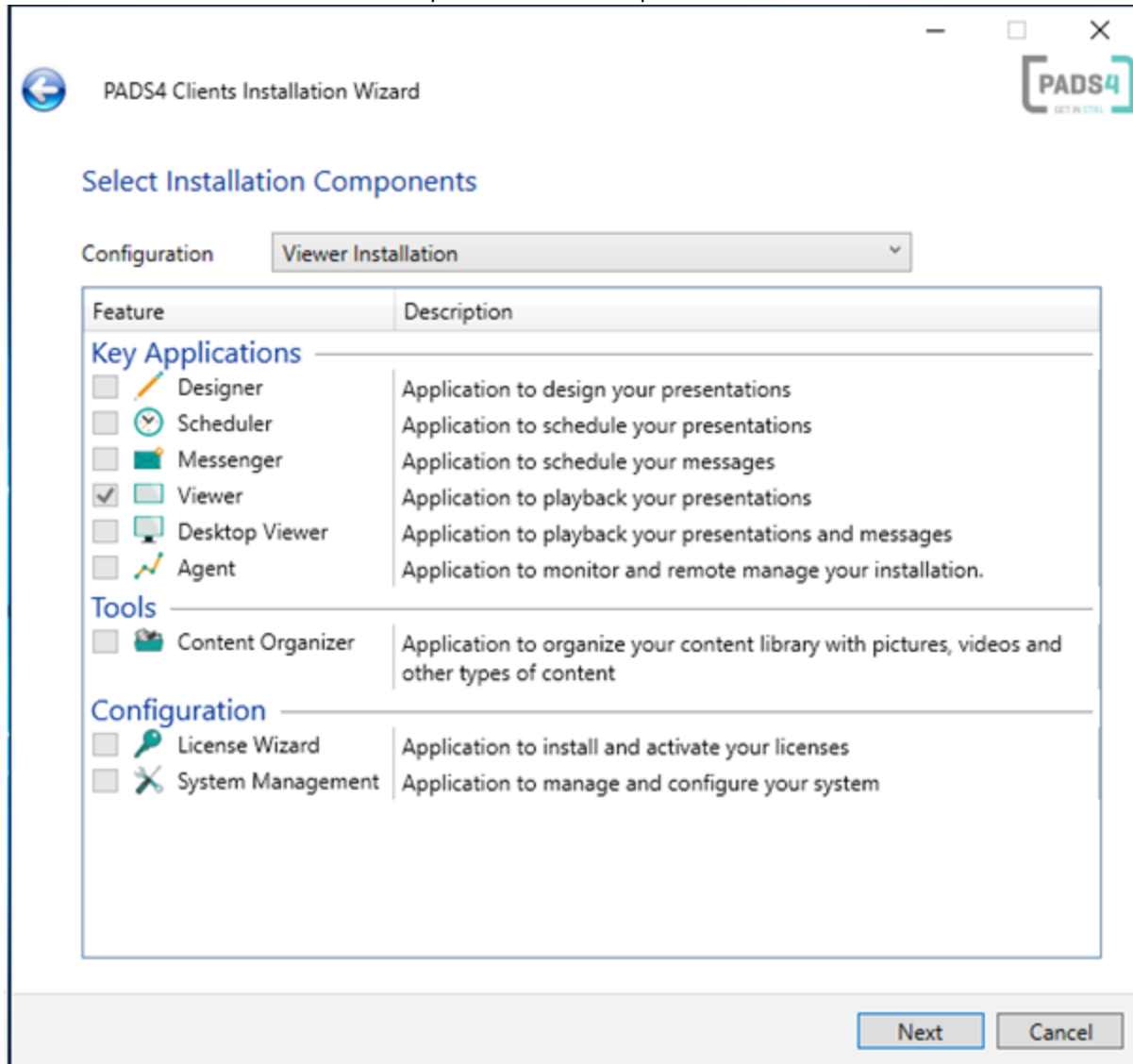


Make sure to read the License Agreement before accepting the terms. Once read, check the check box and press Next.

### User selection

Determine for which users PADS4 Clients needs to be installed and press Next.

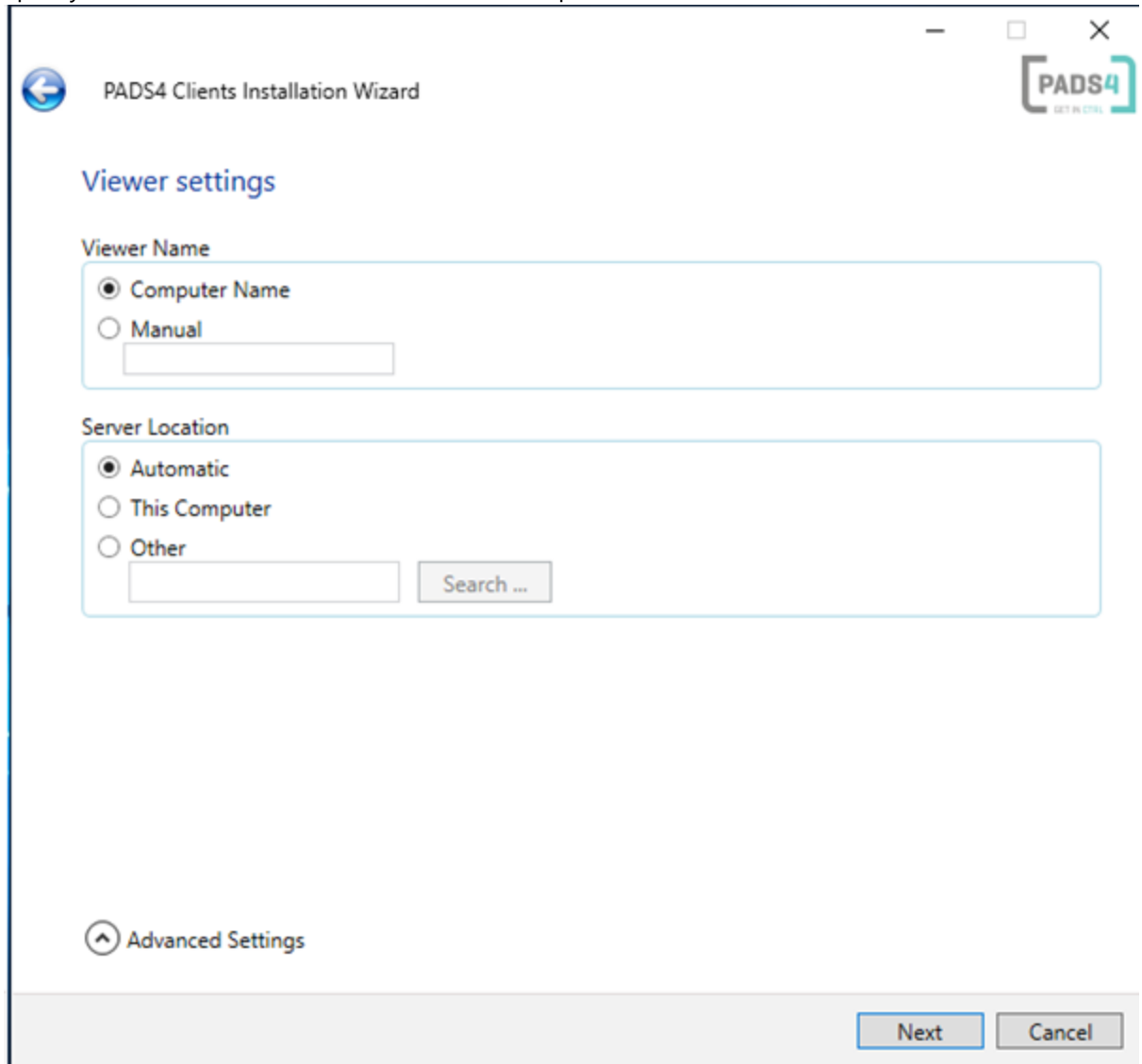
Select Viewer Installation from the drop down menu and press Next.



## Help

Determine whether you wish to install the online help file, reachable by pressing F1 in any of the applications. It will take you directly to the section you are currently working in and we highly recommend installing it.

Specify the Viewer Name and Server Location and press Next.



The screenshot shows the 'PADS4 Clients Installation Wizard' window. The title bar includes the text 'PADS4 Clients Installation Wizard' and the PADS4 logo. The main content area is titled 'Viewer settings' and contains two sections: 'Viewer Name' and 'Server Location'. In the 'Viewer Name' section, the 'Computer Name' radio button is selected, and there is an empty text input field below it. In the 'Server Location' section, the 'Automatic' radio button is selected, and there are two other options: 'This Computer' and 'Other'. Below the 'Other' option is an empty text input field and a 'Search ...' button. At the bottom left of the window, there is a link for 'Advanced Settings' with an upward-pointing arrow icon. At the bottom right, there are two buttons: 'Next' and 'Cancel'.

Determine whether you wish to start PADS4 Clients in **Desktop mode** and if you wish to disable **UAC (User Account Control)**, we recommend to disable UAC so that PADS4 Clients can run with Administrative Privileges without being prompted.

*Optional: If the user itself is not member of the local Administrator group. You can specify to Run Viewer as User that is member of the local Administrator group.*

Determine what shortcuts you would like have and in which Destination Folder PADS4 Clients should be installed. Press Install to start the installation of PADS4 Clients.

### Installation starts

PADS4 Clients is now installing.

When successfully installed, PADS4 Clients should show the "**PADS4 Clients has been successfully installed**" message.

### Network ports used by PADS4

Check out the [Network Ports Configurations page](#) for more information about network ports used by PADS4.



## PADS4 Installation Manual

# Install PADS4 HTML5 Launcher on Android devices

This page explains how to install the PADS4 HTML5 Launcher to start the PADS4 Viewer on Android based hardware that has been certified by NDS.

## Download software

Download the latest PADS4 HTML5 Launcher from: <http://go.pads4.com/?fwlink=1004>

## Install PADS4 HTML5 Launcher from USB stick

1. Store the PADS4 HTML5 Launcher APK on a USB stick
2. Insert the USB stick into the device
3. Select APK Installer
4. Select install and browse the USB for the APK
5. The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears.
6. Press the install button
7. After installation press the open button
8. The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
9. (Optional) If you changed the default server html server settings of the PADS4 Server, open the advanced settings and specify the correct port number and host/root path.
10. Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

Be aware that there must be a valid connection to the PADS4 Server after the PADS4 HTML Launcher is started for the first time to allow the device to download and start PADS4 HTML5 Viewer. After the first download PADS4 HTML5 Viewer is able to run offline.

## Update PADS4 HTML5 Launcher from USB stick

1. Store a new version of the PADS4 HTML5 Launcher APK on a USB stick
2. Insert the USB stick into the device
3. Open Viewer settings

4. Select Launcher settings menu
5. Click on the folder icon in the right bottom corner
6. Select the mnt folder -> usb\_storage
7. Select the APK
8. The message "Do you want to install an update to this existing application" is displayed.
9. Press the install button. The PADS4 HTML5 Launcher automatically starts after installation is finished.



## **PADS4 Installation Manual**

## Install PADS4 HTML5 Viewer on SOC devices

Check out the [Certified PADS4 HTML5 Viewer](#) section which contains all the supported hardware devices and additional information about how to install and start the device.



## PADS4 certified Viewer devices

This section contains all certified PADS4 Viewer devices available (alphabetical sorted).

These devices are tested with every new release of PADS4.

### Manufactures (sorted)

[AOpen](#)

[BenQ](#)

[Brightsign](#)

[Chrome Web Browser \(testing purposes\)](#)

[ELO](#)

[Giada](#)

[Iadea](#)

[LG](#)

[Microsoft Windows](#)

[Philips](#)

[ProDVX](#)

[Qbic](#)

[Samsung](#)



## Certified Viewer devices

This section shows the certified Viewer devices from AOpen.



## PADS4 Installation Manual



# Configuring Aopen AT1032TB

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

Step	Description
01	Start device
02	Start Google chrome app and type in the URL: <a href="http://go.pads4.com/?fwlink=1004">http://go.pads4.com/?fwlink=1004</a>
03	Click on download
04	Chrome needs storage access to download files -> Click on continue
05	Question: "Allow Chrome to access photos, media and files on your device?" -> Click on Allow
06	Open notifications in the left upper corner of the display
07	Question: "This type of file can harm your device, do you want to keep NDS.DroidLauncher-Signed.apk anyway?" -> Click on OK
08	Open notifications in the left upper corner of the display (again)
09	Click on the NDS.DroidLauncher.apk
10	Message: "For your security your tablet is not allowed to install unknown apps from this source" -> Click on Settings
11	Enable on Allow from this source
12	Click on the Android back button
13	Click on Install
14	After installation is finished, click on Open
15	Viewing full screen message appears. Click on Got it
16	In the HTML5 Viewer enter the IP address of the PADS4 server
17	Select the PADS4 HTML5 Viewer as Home app -> Click on Always
18	Click on Start
19	Please allow the PADS4 HTML5Launcher to modify the system settings. Click on Allow
20	Enable Allow to modify system settings
21	Click on the Android back button
22	Click on Start
23	Question: "Allow PADS4 HTML5Launcher to access photos, media, and files on your device?". Click on Allow

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
- Click on the Launcher Settings button
- Click on the gear icon in right bottom corner
- The Android settings open

If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### Disable Android navigation bar

Optionally you can disable the navigation bar of the device, it can be used to change the volume on the device. To disable it, follow the next steps:

- Open the Viewer options
- Click on Launcher Settings
- Click on the gear icon in right bottom corner
- Select System Tools
- Click on Disable in the Navigation Bar section
- The only way to leave the Android setting is to restart the device, by disconnecting the power

### To perform a factory reset of the device follow the next steps:










Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- (Optional) Select Erase SD card
- Select Reset tablet
- Select Erase everything







### Required firmware

**PADS4 requires version kernel 4.4.132**

### Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
	Portrait mode	Supported. Device will adjust the rotation automatically.
	Block remote control	Option to prevent usage of remote control to operate the screen
	Transfer protocols	HTTP, HTTPS
	Turn off display	Not supported
	Cluster Viewer	This device is able to be used as Cluster Viewer
	LED light bar	Supported. Red, Green, Blue, Cyan, Yellow, Magenta and White
	<b>Elements</b>	
	Video element	<p>Maximum number of videos</p> <p>1 video Check out the supplier documentation for more info</p> <p>Video rotation</p> <p>Not supported</p>

		Seamless videos Reflection, skew, flip Streaming	Not supported Not supported HTTP
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF	
<input checked="" type="checkbox"/>	Text element	Supported	
<input checked="" type="checkbox"/>	Line element	Supported	
<input checked="" type="checkbox"/>	Shape element	Supported	
<input checked="" type="checkbox"/>	Scrolling text element	Supported	
<input checked="" type="checkbox"/>	Formatted text element	Supported	
	Flash element	Not supported	
<input checked="" type="checkbox"/>	Table element	Supported	
<input checked="" type="checkbox"/>	Interactive button element	Supported	
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported	
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations	
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose	
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.	
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources	
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically	
<input checked="" type="checkbox"/>	Presentation rules	Supported	
<input checked="" type="checkbox"/>	Page rules	Supported	

	Element rules	Supported																								
	<b>Device Management</b>	Device management which can be performed from a remote location																								
	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Not supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Not supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> <tr> <td>Fonts</td> <td>Install Fonts on device</td> </tr> <tr> <td>Proof of play</td> <td>Show Proof of play information</td> </tr> <tr> <td>Blackbox</td> <td>If help from NDS Support is required, the blackbox contains important information for investigation purposes</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Not supported	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Not supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings	Fonts	Install Fonts on device	Proof of play	Show Proof of play information	Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
Connection state	Device connection state information																									
Alerts	Automatically send out alerts when network failures occur for this device																									
Reboot	Not supported																									
Restart Viewer	Restart PADS4 Viewer																									
Shutdown	Not supported																									
Wake On Lan	Not supported																									
Screenshot	Retrieve screenshots for what is actually displayed																									
Logs	Viewer log, synchronization log, system info																									
Viewer Settings	Edit Viewer Settings																									
Fonts	Install Fonts on device																									
Proof of play	Show Proof of play information																									
Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes																									
	<b>Remarks</b>																									
	Colors	Texture and pattern colors are not supported																								
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported																								
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5																								
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.																								



## Certified Viewer devices

This section shows the certified Viewer devices from BenQ.



## PADS4 Installation Manual

### PADS4 Viewer on BenQ series SL<xx>02K

#### Contents

1. [First time use](#)
  - 1.1. [Configuring the device](#)
  - 1.2. [Resetting the device](#)
2. [Installing PADS4 Viewer](#)
  - 2.1. [Checking device firmware](#)
  - 2.2. [Adjust PADS4 Viewer settings using the options screen](#)

### 2.3. [Accessing Android menu when PADS4 Viewer is running](#)

### 3. [Supported features & limitations](#)

### 4. [Troubleshooting](#)

## 1. **First time use**

This document is related to the SL4302K, SL5502K, SL6502K, SL7502K & SL8502K.

During the installation, you will need to configure the PADS4 Server location. Best approach is to complete the installation of the PADS4 Server first, before continuing the configuration of the device.

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. **Configuring the device**

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

### 1.2. **Resetting the device**

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Select Settings / System from the android menu
02	Open the settings.
03	Select Factory data reset.
04	Click on Reset phone.
05	Select erase everything.

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. **Installing PADS4 Viewer**

Step	Description
------	-------------

01	In the Welcome screen select Settings.
02	Select All Apps
03	Start the Google Chrome app and type in the URL: <a href="http://go.pads4.com/?fwlink=1004">http://go.pads4.com/?fwlink=1004</a>
04	Select download
05	Click on Open
06	Click on Settings to change the security settings (Enable the allow option ). Press the right mouse button to go back to the all apps menu
07	Click on File Manager
08	Click on Download
09	Select NDS.Droid apk launcher
10	Click on Install
11	After installation turn the display off and on again
12	Select PADS4 HTML5 Launcher as home app and <b>select Always option</b>
13	PADS4 launcher will start. Type in the location of the PADS4 Server, port number and viewername
14	Click on Start
15	Click Allow to modify system settings.
16	Press the right mousebutton to return to the settings
17	Click again on Start
18	the Viewer will start and connect to the server

## 2.1. Checking device firmware

To run the PADS4 viewer properly on the SL6502K and make sure that all functionality works, you need to have firmware version kernel 4.9.44\_s5 installed on the device. Please check using the following steps.

Step	Description
01	Open Settings on Android (or settings in the PADS4 Launcher from the PADS4 options menu)
02	Select System.
03	Select about phone.
04	The build number should match kernel 4.9.44_s5

## 2.2. Adjust PADS4 Viewer settings using the options screen










You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds. In the options screen you can also return to the Android app by pressing the Launcher Settings button.








### 2.3. Accessing Android menu when PADS4 Viewer is running

Open the PADS4 HTML5 Viewer options menu by pressing the left mousebutton for 10 seconds. In the menu there is a Launcher settings button.

### 3. Supported features and limitations SL6502K

Support	Category	Description										
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.										
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.										
	<b>Device</b>											
	Portrait mode	Supported. Device will adjust the rotation automatically.										
	Block remote control	Option to prevent usage of remote control to operate the screen										
	Transfer protocols	HTTP, HTTPS										
	Turn off display	Not supported										
	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>1 video on each page. Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	1 video on each page. Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	Not supported	Reflection, skew, flip	Not supported	Streaming	HTTP
Maximum number of videos	1 video on each page. Check out the supplier documentation for more info											
Video rotation	Not supported											
Seamless videos	Not supported											
Reflection, skew, flip	Not supported											
Streaming	HTTP											
	Image element	Support for JPG, PNG, BMP, GIF										

<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically
<input checked="" type="checkbox"/>	Presentation rules	Supported
<input checked="" type="checkbox"/>	Page rules	Supported
<input checked="" type="checkbox"/>	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed

		from a remote location
	Remote device management Web based and Windows	<p>Connection state    Device connection state information</p> <p>Alerts                Automatically send out alerts when network failures occur for this device</p> <p>Reboot                Not supported</p> <p>Restart Viewer      Restart PADS4 Viewer</p> <p>Shutdown            Not supported</p> <p>Wake On Lan        Not supported</p> <p>Screenshot          Retrieve screenshots for what is actually displayed</p> <p>Logs                  Viewer log, synchronization log, system info</p> <p>Viewer Settings    Edit Viewer Settings</p> <p>Fonts                 Install Fonts on device</p> <p>Proof of play        Show Proof of play information</p> <p>Blackbox             If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution
After install nothing happens	Turn off the display

	and turn it back on after installation is finished
When playing videos after a certain time the Viewer stops working	Please update to the right firmware. Older firmware might have a memory leak issue related to videos



## Certified Viewer devices

This section shows the certified Viewer devices from Brightsign.



## PADS4 Installation Manual

### PADS4 Viewer on Brightsign XD234

Contents

1. Prerequisites

- 1.1. Software version
- 1.2. Supported software devices
2. Installing device
- 3 Installation of the PADS4 Viewer
- 3.1 Download the PADS4 Viewer for Brightsign
- 3.2 Install the PADS4 Viewer for Brightsign
4. Supported features & limitations

## 1. Prerequisites

### 1.1. Software version

The minimum PADS4 Server version required for Brightsign is version **2020.4**

Required BrightSign XD234 Operating System (OS) version **8.0.146**

- To check the current BrightSign OS version turn on the device without a storage device inserted. It will be displayed as soon as the BrightSign device has started.
- The BrightSign XD234 OS 8.0.146 can be download from <https://bright-signbiz.s3.amazonaws.com/firmware/xd4/8.0/8.0.146/brightsign-xd4-update-8.0.146.zip>
- You will also find a link with installation instructions on above address to download the OS

### 1.2. Supported software devices

Currently the only supported storage device is a microSD card.

## 2. Setup Brightsign device

The setup of the BrightSign device has to be done before the first time use of the device or after a factory reset.

It is not required to perform a factory reset of the BrightSign before installing the PADS4 Viewer. Nevertheless, should you still want to do a factory reset, instructions can be found here: <https://brightsign.zendesk.com/hc/en-us/articles/218065977-Performing-a-factory-reset>

Step	Description
01	Insert an empty storage device into the BrightSign
02	Turn on the BrightSign device
03	Open <a href="http://&lt;BrightSign IP&gt;/Setup">http://&lt;BrightSign IP&gt;/Setup</a> in a browser window to start the manual setup
04	Click the Next button on the introduction screen of the manual setup
05	In the network setup screen click on the Ethernet button
06	Click on the Use current settings button If the settings displayed in the ethernet settings screen are correct. Otherwise click on Change settings and make the necessary adjustments.
07	Wait until the network diagnostics test finish and click on button Next – BrightAuthor application
08	Select the BrightAuthor radio button and click on Next <i>Please note PADS4 does not require BrightAuthor, but this is a mandatory step in the BrightSign setup.</i>
09	In the publishing options screen please select either Local file networking or Standalone. <i>Just as the previous step, this is a mandatory step in the BrightSign setup. No matter which of the two options you select, it will be possible to connect to PADS4 servers in the LAN, WAN or cloud.</i>
10	Enter or select following for the input fields of the device info: <ul style="list-style-type: none"> <li>• Device name: can be empty</li> <li>• Customization: Append device serial should be selected</li> <li>• Device description: can be empty</li> <li>• Time zone: select the correct time zone for the device</li> <li>• Firmware: should be the already installed firmware version Click on Finish after checking all the input fields.</li> </ul>
11	The device may reboot a couple of times. Wait until it shows the message your BrightSign player has been set up.

### 3 Installation of the PADS4 Viewer

After setup of the BrightSign device, the PADS4 Viewer for BrightSign can downloaded and installed.

### 3.1 Download the PADS4 Viewer for Brightsign

The PADS4 Viewer for BrightSign can be downloaded from a PADS4 server with following address:

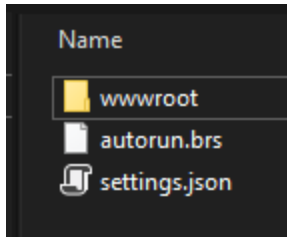
<protocol>://<host>:<port>/<hostpath>/Apps/BrightSign

- Protocol: should be either HTTP or HTTPS, depending if you are hosting with a valid public signed SSL certificate
- Host: DNS name or IP address of the PADS4 Server
- Port: is optional, if the PADS4 server not using the default ports for HTTP or HTTPS, you should specify the port number.
- The configured hostpath in system management, the default value is PADS4.

Example: <http://localhost/pads4/apps/brightsign>

Step	Description
01	Enter the address for downloading the PADS4 Viewer for BrightSign in a browser window
02	You will then see a wizard to download a zip file with the PADS4 Viewer for BrightSign
03	Follow the instructions of the wizard

After completing the wizard, you should have following directory and files in the root of the storage device:



### 3.2 Install the PADS4 Viewer for Brightsign

To install the PADS4 Viewer on BrightSign the only thing left to do is insert the storage device into the BrightSign. If the BrightSign is already running and does not automatically start the PADS4 Viewer after inserting the storage device, you can press the Reset button. The BrightSign will reboot and the PADS4 Viewer will start once it has been rebooted.

#### Server change

It is possible to change the server of the PADS4 Viewer on BrightSign via the viewer settings. This can be done in the PADS4 Foundation or the PADS4 Agent.









Step	Description
01	Go to the Server Connection tab of the Viewer Settings in either PADS4 Foundation or PADS4 Agent
02	<p>Change the server address of the PADS4 server you would like the PADS4 Viewer for BrightSign to connect to. Keep in mind the correct format for the PADS4 server address: &lt;protocol&gt;://&lt;host&gt;:&lt;port&gt;/&lt;hostpath&gt;</p> <ul style="list-style-type: none"> <li>• Protocol: should be either HTTP or HTTPS, depending if you are hosting with a valid public signed SSL certificate</li> <li>• Host: DNS name or IP address of the PADS4 Server</li> <li>• Port: is optional, if the PADS4 server not using the default ports for HTTP or HTTPS, you should specify the port number.</li> <li>• The configured hostpath in system management, the default value is PADS4.</li> </ul>
03	Save the change
04	The PADS4 Viewer will then disconnect from the previous server and connect to the new server.

#### 4. Supported features and limitations for Brightsign

Support	Category	Description
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input checked="" type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	Maximum number of videos 1 video on each page.



		<p>Check out the supplier documentation for more info</p> <p>Video rotation Not supported</p> <p>Seamless videos Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming Not supported</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
	Interactive button element	Not Supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically

	Presentation rules	Supported
	Page rules	Supported
	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed from a remote location
	Remote device management Web based and Windows	<p>Connection state      Device connection state information</p> <p>Alerts                      Automatically send out alerts when network failures occur for this device</p> <p>Reboot                      Reboot device</p> <p>Restart Viewer              Restart PADS4 Viewer</p> <p>Shutdown                      Not supported</p> <p>Wake On Lan                      Not supported</p> <p>Screenshot                      Retrieve screenshots for what is actually displayed</p> <p>Logs                              Viewer log, synchronization log, system info</p> <p>Viewer Settings              Edit Viewer Settings</p> <p>Fonts                              Install Fonts on device</p> <p>Proof of play                      Show Proof of play information</p> <p>Blackbox                              If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be

	removed first.
--	----------------

### Remarks

Problem	Solution
A video doesn't play and shows a error loading video file message in the logs	Convert the video so it adheres to a format and codec supported by BrightSign. For more information, see: <a href="https://brightsign.zendesk.com/hc/en-us/articles/218065137-Supported-video-formats-and-codecs">https://brightsign.zendesk.com/hc/en-us/articles/218065137-Supported-video-formats-and-codecs</a>
When using a system font (e.g. Arial), the font size on BrightSign is bigger than defined in the presentation	Install fonts using PADS4 System management and use these fonts instead inside presentations. Non-system fonts do not have this issue.



## PADS4 Installation Manual

### PADS4 Viewer on Brightsign HD224

#### Contents

1. Prerequisites
  - 1.1. Software version
  - 1.2. Supported software devices
2. Installing device
- 3 Installation of the PADS4 Viewer
  - 3.1 Download the PADS4 Viewer for Brightsign
  - 3.2 Install the PADS4 Viewer for Brightsign

## 4. Supported features & limitations

### 1. Prerequisites

#### 1.1. Software version

The minimum PADS4 Server version required for Brightsign is version **2020.4**

Required BrightSign HD224 Operating System (OS) version **8.0.146**

- To check the current BrightSign OS version turn on the device without a storage device inserted. It will be displayed as soon as the BrightSign device has started.
- The BrightSign HD224 OS 8.0.146 can be download from <https://bright-signbiz.s3.amazonaws.com/firmware/hd4/8.0/8.0.146/brightsign-hd4-update-8.0.146.zip>
- You will also find a link with installation instructions on above address to download the OS

#### 1.2. Supported software devices

Currently the only supported storage device is a microSD card.

### 2. Setup Brightsign device

The setup of the BrightSign device has to be done before the first time use of the device or after a factory reset.

It is not required to perform a factory reset of the BrightSign before installing the PADS4 Viewer. Nevertheless, should you still want to do a factory reset, instructions can be found here: <https://brightsign.zendesk.com/hc/en-us/articles/218065977-Performing-a-factory-reset>

Step	Description
01	Insert an empty storage device into the BrightSign
02	Turn on the BrightSign device
03	Open <a href="http://&lt;BrightSign IP&gt;/Setup">http://&lt;BrightSign IP&gt;/Setup</a> in a browser window to start the manual setup
04	Click the Next button on the introduction screen of the manual setup

05	In the network setup screen click on the Ethernet button
06	Click on the Use current settings button If the settings displayed in the ethernet settings screen are correct. Otherwise click on Change settings and make the necessary adjustments.
07	Wait until the network diagnostics test finish and click on button Next – BrightAuthor application
08	Select the BrightAuthor radio button and click on Next <i>Please note PADS4 does not require BrightAuthor, but this is a mandatory step in the BrightSign setup.</i>
09	In the publishing options screen please select either Local file networking or Standalone. <i>Just as the previous step, this is a mandatory step in the BrightSign setup. No matter which of the two options you select, it will be possible to connect to PADS4 servers in the LAN, WAN or cloud.</i>
10	Enter or select following for the input fields of the device info: <ul style="list-style-type: none"> <li>• Device name: can be empty</li> <li>• Customization: Append device serial should be selected</li> <li>• Device description: can be empty</li> <li>• Time zone: select the correct time zone for the device</li> <li>• Firmware: should be the already installed firmware version Click on Finish after checking all the input fields.</li> </ul>
11	The device may reboot a couple of times. Wait until it shows the message your BrightSign player has been set up.

### 3 Installation of the PADS4 Viewer

After setup of the BrightSign device, the PADS4 Viewer for BrightSign can downloaded and installed.

#### 3.1 Download the PADS4 Viewer for Brightsign

The PADS4 Viewer for BrightSign can be downloaded from a PADS4 server with following address:

<protocol>://<host>:<port>/<hostpath>/Apps/BrightSign

- Protocol: should be either HTTP or HTTPS, depending if you are hosting with a valid public signed SSL certificate

- Host: DNS name or IP address of the PADS4 Server

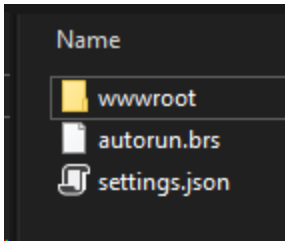
- Port: is optional, if the PADS4 server not using the default ports for HTTP or HTTPS, you should specify the port number.

- The configured hostpath in system management, the default value is PADS4.

Example: <http://localhost/pads4/apps/brightsign>

Step	Description
01	Enter the address for downloading the PADS4 Viewer for BrightSign in a browser window
02	You will then see a wizard to download a zip file with the PADS4 Viewer for BrightSign
03	Follow the instructions of the wizard

After completing the wizard, you should have following directory and files in the root of the storage device:



### 3.2 Install the PADS4 Viewer for Brightsign

To install the PADS4 Viewer on BrightSign the only thing left to do is insert the storage device into the BrightSign. If the BrightSign is already running and does not automatically start the PADS4 Viewer after inserting the storage device, you can press the Reset button. The BrightSign will reboot and the PADS4 Viewer will start once it has been rebooted.

#### Server change

It is possible to change the server of the PADS4 Viewer on BrightSign via the viewer settings. This can be done in the PADS4 Foundation or the PADS4 Agent.

Step	Description
01	Go to the Server Connection tab of the Viewer Settings in either PADS4 Foundation or PADS4 Agent
02	<p>Change the server address of the PADS4 server you would like the PADS4 Viewer for BrightSign to connect to. Keep in mind the correct format for the PADS4 server address: &lt;protocol&gt;://&lt;host&gt;:&lt;port&gt;/&lt;hostpath&gt;</p> <ul style="list-style-type: none"><li>• Protocol: should be either HTTP or HTTPS, depending if you are hosting with a valid public signed SSL certificate</li><li>• Host: DNS name or IP address of the PADS4 Server</li><li>• Port: is optional, if the PADS4 server not using the default ports for HTTP or HTTPS, you should specify the port number.</li></ul>





	• The configured hostpath in system management, the default value is PADS4.
03	Save the change
04	The PADS4 Viewer will then disconnect from the previous server and connect to the new server.

#### 4. Supported features and limitations for Brightsign

Support	Category	Description										
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.										
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.										
	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input checked="" type="checkbox"/>	Turn off display	Not supported										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>1 video on each page. Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>Not supported</td> </tr> </table>	Maximum number of videos	1 video on each page. Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	Not supported	Reflection, skew, flip	Not supported	Streaming	Not supported
Maximum number of videos	1 video on each page. Check out the supplier documentation for more info											
Video rotation	Not supported											
Seamless videos	Not supported											
Reflection, skew, flip	Not supported											
Streaming	Not supported											
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										
<input checked="" type="checkbox"/>	Line element	Supported										

<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
	Interactive button element	Not Supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically
<input checked="" type="checkbox"/>	Presentation rules	Supported
<input checked="" type="checkbox"/>	Page rules	Supported
<input checked="" type="checkbox"/>	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed from a remote location
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<p>Connection state      Device connection state information</p> <p>Alerts                      Automatically send out alerts when network failures occur for this device</p>



		Reboot Restart Viewer Shutdown Wake On Lan Screenshot Logs Viewer Settings Fonts Proof of play Blackbox	Reboot device Restart PADS4 Viewer Not supported Not supported Retrieve screenshots for what is actually displayed Viewer log, synchronization log, system info Edit Viewer Settings Install Fonts on device Show Proof of play information If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

### Remarks

Problem	Solution
A video doesn't play and shows a error loading video file message in the logs	Convert the video so it adheres to a format and codec supported by BrightSign. For more information, see: <a href="https://brightsign.zendesk.com/hc/en-us/articles/218065137-Supported-video-formats-and-codecs">https://brightsign.zendesk.com/hc/en-us/articles/218065137-Supported-video-formats-and-codecs</a>
When using a system font (e.g. Arial), the font size on BrightSign is bigger than defined in the	Install fonts using PADS4 System management and use these fonts instead inside presentations. Non-system fonts do not have this issue.



## PADS4 Installation Manual

### PADS4 Viewer on Brightsign LS424

#### Contents

1. Prerequisites
  - 1.1. Software version
  - 1.2. Supported software devices
2. Installing device
3. Installation of the PADS4 Viewer
  - 3.1. Download the PADS4 Viewer for Brightsign
  - 3.2. Install the PADS4 Viewer for Brightsign
4. Supported features & limitations

#### 1. Prerequisites

##### 1.1. Software version

The minimum PADS4 Server version required for Brightsign is version **2020.4**

Required BrightSign LS424 Operating System (OS) version **8.0.146**

- To check the current BrightSign OS version turn on the device without a storage device inserted. It will be displayed as soon as the BrightSign device has started.
- The BrightSign LS424 OS 8.0.146 can be download from <https://bright-signbiz.s3.amazonaws.com/firmware/ls4/8.0/8.0.146/brightsign-ls4-update-8.0.146.zip>
- You will also find a link with installation instructions on above address to download the OS

## 1.2. Supported software devices

Currently the only supported storage device is a microSD card.

## 2. Setup Brightsign device

The setup of the BrightSign device has to be done before the first time use of the device or after a factory reset.

It is not required to perform a factory reset of the BrightSign before installing the PADS4 Viewer. Nevertheless, should you still want to do a factory reset, instructions can be found here: <https://brightsign.zendesk.com/hc/en-us/articles/218065977-Performing-a-factory-reset>

Step	Description
01	Insert an empty storage device into the BrightSign
02	Turn on the BrightSign device
03	Open <a href="http://&lt;BrightSign IP&gt;/Setup">http://&lt;BrightSign IP&gt;/Setup</a> in a browser window to start the manual setup
04	Click the Next button on the introduction screen of the manual setup
05	In the network setup screen click on the Ethernet button
06	Click on the Use current settings button If the settings displayed in the ethernet settings screen are correct. Otherwise click on Change settings and make the necessary adjustments.
07	Wait until the network diagnostics test finish and click on button Next – BrightAuthor application
08	Select the BrightAuthor radio button and click on Next <i>Please note PADS4 does not require BrightAuthor, but this is a mandatory step in the BrightSign setup.</i>
09	In the publishing options screen please select either Local file networking or Standalone. <i>Just as the previous step, this is a mandatory step in the BrightSign setup. No matter which of the two options you select, it will be possible to connect to PADS4 servers in the LAN, WAN or cloud.</i>

10	<p>Enter or select following for the input fields of the device info:</p> <ul style="list-style-type: none"> <li>• Device name: can be empty</li> <li>• Customization: Append device serial should be selected</li> <li>• Device description: can be empty</li> <li>• Time zone: select the correct time zone for the device</li> <li>• Firmware: should be the already installed firmware version Click on Finish after checking all the input fields.</li> </ul>
11	The device may reboot a couple of times. Wait until it shows the message your BrightSign player has been set up.

### 3 Installation of the PADS4 Viewer

After setup of the BrightSign device, the PADS4 Viewer for BrightSign can downloaded and installed.

#### 3.1 Download the PADS4 Viewer for Brightsign

The PADS4 Viewer for BrightSign can be downloaded from a PADS4 server with following address:

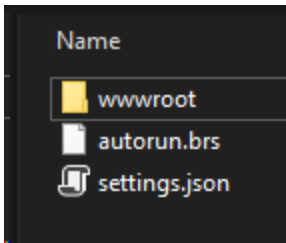
<protocol>://<host>:<port>/<hostpath>/Apps/BrightSign

- Protocol: should be either HTTP or HTTPS, depending if you are hosting with a valid public signed SSL certificate
- Host: DNS name or IP address of the PADS4 Server
- Port: is optional, if the PADS4 server not using the default ports for HTTP or HTTPS, you should specify the port number.
- The configured hostpath in system management, the default value is PADS4.

Example: <http://localhost/pads4/apps/brightsign>

Step	Description
01	Enter the address for downloading the PADS4 Viewer for BrightSign in a browser window
02	You will then see a wizard to download a zip file with the PADS4 Viewer for BrightSign
03	Follow the instructions of the wizard

After completing the wizard, you should have following directory and files in the root of the storage device:



### 3.2 Install the PADS4 Viewer for Brightsign


To install the PADS4 Viewer on BrightSign the only thing left to do is insert the storage device into the BrightSign. If the BrightSign is already running and does not automatically start the PADS4 Viewer after inserting the storage device, you can press the Reset button. The BrightSign will reboot and the PADS4 Viewer will start once it has been rebooted.

#### Server change

It is possible to change the server of the PADS4 Viewer on BrightSign via the viewer settings. This can be done in the PADS4 Foundation or the PADS4 Agent.





Step	Description
01	Go to the Server Connection tab of the Viewer Settings in either PADS4 Foundation or PADS4 Agent
02	<p>Change the server address of the PADS4 server you would like the PADS4 Viewer for BrightSign to connect to. Keep in mind the correct format for the PADS4 server address: &lt;protocol&gt;://&lt;host&gt;:&lt;port&gt;/&lt;hostpath&gt;</p> <ul style="list-style-type: none"> <li>• Protocol: should be either HTTP or HTTPS, depending if you are hosting with a valid public signed SSL certificate</li> <li>• Host: DNS name or IP address of the PADS4 Server</li> <li>• Port: is optional, if the PADS4 server not using the default ports for HTTP or HTTPS, you should specify the port number.</li> <li>• The configured hostpath in system management, the default value is PADS4.</li> </ul>
03	Save the change
04	The PADS4 Viewer will then disconnect from the previous server and connect to the new server.

### 4. Supported features and limitations for Brightsign

Support	Category	Description
	Automatic PADS4 Software updates	Supported.

		HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input checked="" type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 1 video on each page. Check out the supplier documentation for more info</p> <p>Video rotation Not supported</p> <p>Seamless videos Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming Not supported</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
	Interactive button element	Not Supported

<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported																
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations																
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources																
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																
<input checked="" type="checkbox"/>	Presentation rules	Supported																
<input checked="" type="checkbox"/>	Page rules	Supported																
<input checked="" type="checkbox"/>	Element rules	Supported																
	<b>Device Management</b>	Device management which can be performed from a remote location																
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Reboot device</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Not supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Reboot device	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Not supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info
Connection state	Device connection state information																	
Alerts	Automatically send out alerts when network failures occur for this device																	
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Restart Viewer	Restart PADS4 Viewer																	
Shutdown	Not supported																	
Wake On Lan	Not supported																	
Screenshot	Retrieve screenshots for what is actually displayed																	
Logs	Viewer log, synchronization log, system info																	

		Viewer Settings Fonts Proof of play Blackbox	Edit Viewer Settings Install Fonts on device Show Proof of play information If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

### Remarks

Problem	Solution
A video doesn't play and shows a error loading video file message in the logs	Convert the video so it adheres to a format and codec supported by BrightSign. For more information, see: <a href="https://brightsign.zendesk.com/hc/en-us/articles/218065137-Supported-video-formats-and-codecs">https://brightsign.zendesk.com/hc/en-us/articles/218065137-Supported-video-formats-and-codecs</a>
When using a system font (e.g. Arial), the font size on BrightSign is bigger than defined in the presentation	Install fonts using PADS4 System management and use these fonts instead inside presentations. Non-system fonts do not have this issue.





# **PADS4 Installation Manual**

# Configuring Chrome Browser for testing

This page explains how to configure a Windows Chrome Browser to run the PADS4 HTML5 Viewer. This can be of use for some testing purposes. Be aware that this does not contains system related functionality like reboot.

Using a Chrome Web Browser as a 24/7 solution is not recommended. Watch functionality which is available on certified Android systems will check memory consumption and is able to restart when needed to keep the system up and running. This is not working on a Chrome Web Browser.

## Start of Chrome Browser on Microsoft Windows for testing

PADS4 requires Chrome to be installed.

Step	Description
01	Start device
02	Start Chrome Browser
03	http://<server>/PADS4/apps/viewer/

## Required software





**PADS4 requires Chrome Browser version 70 or higher**

## Supported features and limitations

Support	Category	Description
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen

<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input type="checkbox"/>	Turn off display	Not supported										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
<input checked="" type="checkbox"/>	LED light bar	Supported. Red, Green, Blue, Cyan, Yellow, Magenta and White										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table> <tr> <td>Maximum number of videos</td> <td>16 videos (related to hardware performance)</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	16 videos (related to hardware performance)	Video rotation	Not supported	Seamless videos	Not supported	Reflection, skew, flip	Not supported	Streaming	HTTP
Maximum number of videos	16 videos (related to hardware performance)											
Video rotation	Not supported											
Seamless videos	Not supported											
Reflection, skew, flip	Not supported											
Streaming	HTTP											
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										
<input checked="" type="checkbox"/>	Line element	Supported										
<input checked="" type="checkbox"/>	Shape element	Supported										
<input checked="" type="checkbox"/>	Scrolling text element	Supported										
<input checked="" type="checkbox"/>	Formatted text element	Supported										
	Flash element	Not supported										
<input checked="" type="checkbox"/>	Table element	Supported										
<input checked="" type="checkbox"/>	Interactive button element	Supported										
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported										
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations										
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose										
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections.										

		It also gives the opportunity to centrally manage the content without changing presentations or data providers.																								
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources																								
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																								
<input checked="" type="checkbox"/>	Presentation rules	Supported																								
<input checked="" type="checkbox"/>	Page rules	Supported																								
<input checked="" type="checkbox"/>	Element rules	Supported																								
	<b>Device Management</b>	Device management which can be performed from a remote location																								
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Not supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Not supported</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Not supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> <tr> <td>Fonts</td> <td>Install Fonts on device</td> </tr> <tr> <td>Proof of play</td> <td>Show Proof of play information</td> </tr> <tr> <td>Blackbox</td> <td>If help from NDS Support is required, the blackbox contains important information for investigation purposes</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Not supported	Restart Viewer	Not supported	Shutdown	Not supported	Wake On Lan	Not supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings	Fonts	Install Fonts on device	Proof of play	Show Proof of play information	Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
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Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes																									
	<b>Remarks</b>																									

	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## Certified Viewer devices

This section shows the certified Viewer devices from ELO.



## PADS4 Installation Manual

# Configuring ELO I-Series 2

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

## Welcome

When you turn the device on for the first time it will automatically open a welcome screen. Continue on this screen by pressing the OK button twice.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

### Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## Upgrading PADS4 Launcher from USB stick

When a new PADS4 Launcher is available follow the next steps to upgrade.

Step Step Description

- 1 Store the new PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 Open the PADS4 Viewer settings
- 4 Select Launcher settings from the menu
- 5 Click on the folder icon in the right bottom corner
- 6 Navigate to the newer apk on the usb stick, by selecting the storage folder and then the usb\_storage folder
- 7 Select the apk
- 8 The message "Do you want to install an update to this existing application" is displayed.
- 9 Press the install button. The PADS4 HTML5 Launcher should automatically start when installed.

## Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

## Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

## Disable Android navigation bar

Optionally you can disable the navigation bar of the device, it can be used to change the volume on the device. To disable it, follow the next steps:

- Open the Viewer options
- Click on Launcher Settings
- Click on the gear icon in right bottom corner
- Select System Tools

- Click on Disable in the Navigation Bar section
- The only way to leave the Android setting is to restart the device, by disconnecting the power

**To perform a factory reset of the device follow the next steps:**

Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- (Optional) Select Erase SD card
- Select Reset tablet
- Select Erase everything







**Supported features and limitations**

\*ELO series based on Microsoft Windows are fully compatible with the PADS4 Windows Viewer.  
Please check the Windows documentation for more info.

Support	Category	Description
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported.
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	Maximum number of videos      maximum of 4x HD video (30fps)



		<p>maximum of 2x HD video (60fps) Check out the supplier documentation for more info</p> <p>Video rotation Supported Seamless videos Supported Playback speed adjustment Supported Reflection, skew, flip Supported Streaming Supported</p>
<input checked="" type="checkbox"/>	Image element	Supported
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.

	Property bindings	Apply element properties by using external data sources
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically
	Presentation rules	Supported
	Page rules	Supported
	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed from a remote location
	Remote device management Web based and Windows	<p>Connection state      Device connection state information</p> <p>Alerts                      Automatically send out alerts when network failures occur for this device</p> <p>Reboot                      Supported</p> <p>Restart Viewer              Supported</p> <p>Shutdown                      Supported</p> <p>Wake On Lan                      Supported</p> <p>Screenshot                      Supported</p> <p>Logs                              Viewer log, synchronization log, system info</p> <p>Viewer Settings              Edit Viewer Settings</p> <p>Fonts                              Install Fonts on device</p> <p>Proof of play                      Show Proof of play information</p> <p>Blackbox                      If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<b>Remarks</b>	
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5



## Certified Viewer devices

This section shows the certified Viewer devices from Giada.



## PADS4 Installation Manual

# Configuring Giada DN73

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will automatically show the configuration wizard. Follow the steps and specify settings.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## Upgrading PADS4 Launcher from USB stick

When a new PADS4 Launcher is available follow the next steps to upgrade.

Step	Step Description
1	Perform a factory reset
2	Follow the steps for the installation of the PADS4 HTML5 Viewer Android Launcher

### Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### To perform a factory reset of the device follow the next steps:



Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- Select Reset tablet
- Select Erase everything

### Required firmware





**PADS4 requires version kernel 3.10 Build rk3328-box**

### Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change

		planned schedules for 7 days. Scheduled presentations, content and data is cached local.										
	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input type="checkbox"/>	Turn off display	Not supported										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>4 videos</td> </tr> <tr> <td>Video rotation</td> <td>Supported</td> </tr> <tr> <td>Seamless videos</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table> <p>Check out the supplier documentation for more info</p>	Maximum number of videos	4 videos	Video rotation	Supported	Seamless videos	Not supported	Reflection, skew, flip	Not supported	Streaming	HTTP
Maximum number of videos	4 videos											
Video rotation	Supported											
Seamless videos	Not supported											
Reflection, skew, flip	Not supported											
Streaming	HTTP											
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										
<input checked="" type="checkbox"/>	Line element	Supported										
<input checked="" type="checkbox"/>	Shape element	Supported										
<input checked="" type="checkbox"/>	Scrolling text element	Supported										
<input checked="" type="checkbox"/>	Formatted text element	Supported										
	Flash element	Not supported										
<input checked="" type="checkbox"/>	Table element	Supported										
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported										

<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported																
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations																
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources																
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																
<input checked="" type="checkbox"/>	Presentation rules	Supported																
<input checked="" type="checkbox"/>	Page rules	Supported																
<input checked="" type="checkbox"/>	Element rules	Supported																
	<b>Device Management</b>	Device management which can be performed from a remote location																
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Not supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Not supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Not supported	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Not supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info
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Screenshot	Retrieve screenshots for what is actually displayed																	
Logs	Viewer log, synchronization log, system info																	

		<p>Viewer Settings      Edit Viewer Settings</p> <p>Fonts                      Install Fonts on device</p> <p>Proof of play              Show Proof of play information</p> <p>Blackbox                      If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## PADS4 Installation Manual



# Configuring Giada DN74

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will automatically show the configuration wizard. Follow the steps and specify settings.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

### Step Step Description

- 1 Run the internet browser app (for example Lightning or Browser) and type in the URL:  
<http://go.pads4.com/?fwlink=1004>
- 2 Click on download
- 3 Click on Continue then Allow
- 4 Wait about 1 minute (loading screen will not disappear when finished downloading)
- 5 Go to Android apps and click on files - > Downloads
- 6 Double click on the NDS Android HTML5 Launcher
- 7 Allow unknown apps to be installed if prompted click on settings - > Allow from this source
- 8 Click on the back arrow and then click on install in the lower right corner
- 9 After installing click on open in the lower right corner
- 10 Type in the location of the PADS4 Server
- 11 Click on start and select the PADS4 HTML5 Viewer as Home app and select 'Always'
- 12 Click on Start again
- 13 Allow to modify system settings
- 14 Click on the back arrow
- 15 Click on Allow to access media files
- 16 You may now start the HTML5 Viewer

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## Upgrading PADS4 Launcher

When a new PADS4 Launcher is available follow the next steps to upgrade.

Step	Step Description
1	Perform a factory reset
2	Follow the steps for the installation of the PADS4 HTML5 Viewer Android Launcher

## Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

## Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
- Click on the Launcher Settings button
- Click on the gear icon in right bottom corner
- The Android settings open

If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

## To perform a factory reset of the device follow the next steps:

Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- Select Reset tablet
- Select Erase everything

## Required firmware





**PADS4 requires version kernel 4.4.126 Build rk3399-all**

**Minimum PADS4 Launcher 1.7.0**

## Supported features and limitations

Support	Category	Description										
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.										
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.										
	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input type="checkbox"/>	Turn off display	Not supported										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>2 videos</td> </tr> <tr> <td>Video rotation</td> <td>Supported</td> </tr> <tr> <td>Seamless videos</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table> <p>Check out the supplier documentation for more info</p>	Maximum number of videos	2 videos	Video rotation	Supported	Seamless videos	Not supported	Reflection, skew, flip	Not supported	Streaming	HTTP
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<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										
<input checked="" type="checkbox"/>	Line element	Supported										
<input checked="" type="checkbox"/>	Shape element	Supported										
<input checked="" type="checkbox"/>	Scrolling text element	Supported										
<input checked="" type="checkbox"/>	Formatted text element	Supported										

	Flash element	Not supported						
<input checked="" type="checkbox"/>	Table element	Supported						
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported						
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported						
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations						
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose						
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.						
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources						
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically						
<input checked="" type="checkbox"/>	Presentation rules	Supported						
<input checked="" type="checkbox"/>	Page rules	Supported						
<input checked="" type="checkbox"/>	Element rules	Supported						
	<b>Device Management</b>	Device management which can be performed from a remote location						
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Not supported</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Not supported
Connection state	Device connection state information							
Alerts	Automatically send out alerts when network failures occur for this device							
Reboot	Not supported							

		Restart Viewer Shutdown Wake On Lan Screenshot Logs Viewer Settings Fonts Proof of play Blackbox	Restart PADS4 Viewer Not supported Not supported Retrieve screenshots for what is actually displayed Viewer log, synchronization log, system info Edit Viewer Settings Install Fonts on device Show Proof of play information If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



# **PADS4 Installation Manual**

## Configuring Giada DM6

This page explains how to configure the player to run the PADS4 HTML5 Viewer.

### Installation of the PADS4 Viewer

When you turn the device on for the first time, follow the instructions to install a PADS4 Viewer onto a windows device.

[How to Install PADS4 Viewer](#)



### Certified Viewer devices

This section shows the certified Viewer devices from Iadea.



### PADS4 Installation Manual

# Configuring IAdea XDS-1078

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will automatically show a welcome screen. Press OK twice. Follow the steps and specify settings, as mentioned in the table below.

## Configuring the device for PADS4 HTML5 Viewer Launcher

By default, the network settings are disabled on the device. Also because it is a touch device you want to disable the system status bar, so you cannot close the viewer app. To configure these settings.

- Open the settings on Android
- Make sure that either Wi fi and/or Ethernet is enabled
- To disable the status bar, select Display and check the hide status bar option
- To disable the physical button on the device, select Physical Button Manager and uncheck the Enable Physical Buttons option

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

### Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.



When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears or touch the panel for 3 seconds.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### To perform a factory reset of the device follow the next steps:

Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- (Optional) Select Erase SD card
- Select Reset tablet
- Select Erase everything






### Required firmware

**PADS4 requires kernel version 2.0.1**

## Supported features and limitations

Support	Category	Description										
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.										
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.										
	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input type="checkbox"/>	Turn off display	Not supported										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
<input checked="" type="checkbox"/>	LED light bar	Supported The alpha color defines the brightness of the color. The RGB values specify the color. Alpha value of 0: the light is off. Alpha value of 255: the light is at its brightest value.										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>1 HD video (max 30fps) Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Supported</td> </tr> <tr> <td>Seamless videos</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	1 HD video (max 30fps) Check out the supplier documentation for more info	Video rotation	Supported	Seamless videos	Not supported	Reflection, skew, flip	Not supported	Streaming	HTTP
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<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										

<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically
<input checked="" type="checkbox"/>	Presentation rules	Supported
<input checked="" type="checkbox"/>	Page rules	Supported
<input checked="" type="checkbox"/>	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed

		from a remote location
	Remote device management Web based and Windows	<p>Connection state      Device connection state information</p> <p>Alerts                      Automatically send out alerts when network failures occur for this device</p> <p>Reboot                      Not supported</p> <p>Restart Viewer              Restart PADS4 Viewer</p> <p>Shutdown                      Not supported</p> <p>Wake On Lan                      Not supported</p> <p>Screenshot                      Retrieve screenshots for what is actually displayed</p> <p>Logs                              Viewer log, synchronization log, system info</p> <p>Viewer Settings              Edit Viewer Settings</p> <p>Fonts                              Install Fonts on device</p> <p>Proof of play                      Show Proof of play information</p> <p>Blackbox                              If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## **PADS4 Installation Manual**

# Configuring IDea XDS-1088

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears or touch the panel for 3 seconds.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### To perform a factory reset of the device follow the next steps:



Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- (Optional) Select Erase SD card
- Select Reset tablet
- Select Erase everything

### Required firmware

**PADS4 requires version 4.4.143 Firmware build number 2.0.1-26**





### Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	

<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input type="checkbox"/>	Turn off display	Not supported										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table> <tr> <td>Maximum number of videos</td> <td>4 videos</td> </tr> <tr> <td>Video rotation</td> <td>Supported</td> </tr> <tr> <td>Seamless videos</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table> <p>Check out the supplier documentation for more info</p>	Maximum number of videos	4 videos	Video rotation	Supported	Seamless videos	Not supported	Reflection, skew, flip	Not supported	Streaming	HTTP
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<input checked="" type="checkbox"/>	Shape element	Supported										
<input checked="" type="checkbox"/>	Scrolling text element	Supported										
<input checked="" type="checkbox"/>	Formatted text element	Supported										
	Flash element	Not supported										
<input checked="" type="checkbox"/>	Table element	Supported										
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported										
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	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations										



<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																						
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Fonts	Install Fonts on device																							
Proof of play	Show Proof of play information																							

		Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## PADS4 Installation Manual

# Configuring IDea XDS-1588A

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears or touch the panel for 3 seconds.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### To perform a factory reset of the device follow the next steps:



Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- (Optional) Select Erase SD card
- Select Reset tablet
- Select Erase everything

### Required firmware





**PADS4 requires version 4.4.143 Firmware build number 2.0.1-26**

### Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	

<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 4 videos Check out the supplier documentation for more info</p> <p>Video rotation Supported</p> <p>Seamless videos Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming HTTP</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations

<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																						
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																						
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources																						
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																						
<input checked="" type="checkbox"/>	Presentation rules	Supported																						
<input checked="" type="checkbox"/>	Page rules	Supported																						
<input checked="" type="checkbox"/>	Element rules	Supported																						
	<b>Device Management</b>	Device management which can be performed from a remote location																						
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Not supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Not supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> <tr> <td>Fonts</td> <td>Install Fonts on device</td> </tr> <tr> <td>Proof of play</td> <td>Show Proof of play information</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Not supported	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Not supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings	Fonts	Install Fonts on device	Proof of play	Show Proof of play information
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Viewer Settings	Edit Viewer Settings																							
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Proof of play	Show Proof of play information																							

		Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## PADS4 Installation Manual

# Configuring IAdea MBR 1100

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.



Click on the left button of the mouse and hold this down until the menu appears or touch the panel for 3 seconds.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### To perform a factory reset of the device follow the next steps:



Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- (Optional) Select Erase SD card
- Select Reset tablet
- Select Erase everything

### Required firmware





**PADS4 requires version 1**

### Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	

<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 2 videos Check out the supplier documentation for more info</p> <p>Video rotation Supported</p> <p>Seamless videos Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming HTTP</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations

<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																						
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																						
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		Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## PADS4 Installation Manual

# Configuring IDea XMP-6400 / XMP-7300

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears or touch the panel for 3 seconds.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### To perform a factory reset of the device follow the next steps:



Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- (Optional) Select Erase SD card
- Select Reset tablet
- Select Erase everything

### Required firmware

**PADS4 requires version 1**





### Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	

<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 1 HD video (maximum 30fps) Check out the supplier documentation for more info</p> <p>Video rotation Supported</p> <p>Seamless videos Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming HTTP</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Not Supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval

		of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																								
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																								
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Blackbox	If help from NDS Support is																									



		required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## PADS4 Installation Manual

# Configuring IDea XMP-6400 / XMP-7300

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears or touch the panel for 3 seconds.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### To perform a factory reset of the device follow the next steps:



Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- (Optional) Select Erase SD card
- Select Reset tablet
- Select Erase everything

### Required firmware





**PADS4 requires version 1**

### Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	

<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 1 HD video (maximum 30fps) Check out the supplier documentation for more info</p> <p>Video rotation Supported</p> <p>Seamless videos Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming HTTP</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Not Supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval

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<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources																								
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																								
<input checked="" type="checkbox"/>	Presentation rules	Supported																								
<input checked="" type="checkbox"/>	Page rules	Supported																								
<input checked="" type="checkbox"/>	Element rules	Supported																								
	<b>Device Management</b>	Device management which can be performed from a remote location																								
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Not supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Not supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> <tr> <td>Fonts</td> <td>Install Fonts on device</td> </tr> <tr> <td>Proof of play</td> <td>Show Proof of play information</td> </tr> <tr> <td>Blackbox</td> <td>If help from NDS Support is</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Not supported	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Not supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings	Fonts	Install Fonts on device	Proof of play	Show Proof of play information	Blackbox	If help from NDS Support is
Connection state	Device connection state information																									
Alerts	Automatically send out alerts when network failures occur for this device																									
Reboot	Not supported																									
Restart Viewer	Restart PADS4 Viewer																									
Shutdown	Not supported																									
Wake On Lan	Not supported																									
Screenshot	Retrieve screenshots for what is actually displayed																									
Logs	Viewer log, synchronization log, system info																									
Viewer Settings	Edit Viewer Settings																									
Fonts	Install Fonts on device																									
Proof of play	Show Proof of play information																									
Blackbox	If help from NDS Support is																									

		required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## Certified Viewer devices

This section shows the certified Viewer devices from LG.



# PADS4 Installation Manual

## Viewer on LG WebOS2

### Contents

1. First time use
  - 1.1. Configuring the device
  - 1.2. Resetting the device
2. Installing PADS4 Viewer
  - 2.1. Checking device firmware
  - 2.2. Updating firmware
  - 2.3. Adjust PADS4 Viewer settings using the options screen
3. Supported features & limitations
4. Troubleshooting

### 1. First time use

This document is related to the WebOS2.

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

#### 1.1. Configuring the device

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

## 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Press and hold Settings button until a balloon icon appears at the right top
02	Press keys 0 0 0 0 followed by OK key on remote control
03	Select signage setup menu
04	Select factory reset option (at the bottom of the menu)
05	Confirm to start the factory reset

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer

Step	Description
01	Power on button
02	Press and hold Settings button until a balloon icon appears at the right top
03	Press keys 8 0 8 0 followed by OK key on remote control
04	Set Application launch mode to local
05	Set Fully qualified domain name to ON
06	Set the URL for normal or secured connection http://<server>/pads4/native/lg.zip https://<server>/pads4/native/lg.zip (secured connection using https) Where <server> is the IP address or domain name of your PADS4 Server
07	Select remote option
08	Confirm to start
08	After download power off/on the device

When finished the device will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.



## 2.1. Checking device firmware

To run the PADS4 viewer properly on the WebOS2 and make sure that all functionality works, you need to have firmware as mentioned in step 4 installed on the device. Please check using the following steps.

Step	Description
01	Press Home button on the remote control
02	Select Information Application <b>Version 3.90.30 is required by PADS4</b>

## 2.2 Updating firmware

Step	Description
01	Copy the firmware .epk file into the LG_MONITOR folder of a USB stick
02	Insert the USB Stick with the new firmware into the screen
03	Device will detect the USB stick and start the update automatically

## 2.3. Adjust PADS4 Viewer settings using the options screen





You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds.

## 3. Supported features and limitations

Support	Category	Description
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported.
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen

<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 1 video. Check out the supplier documentation for more info</p> <p>Video rotation Not supported</p> <p>Automatic size Not supported uniform in combination with border and alignment not supported</p> <p>Playback speed adjustment Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming HTTP, HTTPS, HLS V3, UDP</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported

	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations																				
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																				
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																				
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources																				
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																				
<input checked="" type="checkbox"/>	Presentation rules	Supported																				
<input checked="" type="checkbox"/>	Page rules	Supported																				
<input checked="" type="checkbox"/>	Element rules	Supported																				
	<b>Device Management</b>	Device management which can be performed from a remote location																				
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Not supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> <tr> <td>Fonts</td> <td>Install Fonts on device</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Supported	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Not supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings	Fonts	Install Fonts on device
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Restart Viewer	Restart PADS4 Viewer																					
Shutdown	Not supported																					
Wake On Lan	Not supported																					
Screenshot	Retrieve screenshots for what is actually displayed																					
Logs	Viewer log, synchronization log, system info																					
Viewer Settings	Edit Viewer Settings																					
Fonts	Install Fonts on device																					

		Proof of play	Show Proof of play information
		Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution



## PADS4 Installation Manual

# Viewer on LG WebOS3

## Contents

1. [First time use](#)
  - 1.1. [Configuring the device](#)
  - 1.2. [Resetting the device](#)
2. [Installing PADS4 Viewer](#)
  - 2.1. [Checking device firmware](#)
  - 2.2. [Updating firmware](#)
  - 2.3. [Adjust PADS4 Viewer settings using the options screen](#)
3. [Supported features & limitations](#)
4. [Troubleshooting](#)

## 1. First time use

This document is related to the WebOS3.

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

### 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Press and hold Settings button until an balloon icon appears at the right top
02	Press keys 0 0 0 0 followed by OK key on remote control

03	Select signage setup menu
04	Select factory reset option (at the bottom of the menu)
05	Confirm to start the factory reset

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer

Step	Description
01	Power on button
02	Press and hold Settings button until a balloon icon appears at the right top
03	Press keys 8 0 8 0 followed by OK key on remote control
04	Set Application launch mode to local
05	Set Fully qualified domain name to ON
06	Set the URL for normal or secured connection http://<server>/pads4/native/lg.zip https://<server>/pads4/native/lg.zip (secured connection using https)  Where <server> is the IP address or domain name of your PADS4 Server
07	Set the desired rotation (0,90,180,270)
08	Select remote option
09	Confirm to start
10	After download power off/on the device

When finished the device will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### 2.1. Checking device firmware

To run the PADS4 viewer properly on the WebOS3 and make sure that all functionality works, you need to have firmware as mentioned in step 4 installed on the device. Please check using the following steps.

Step	Description
------	-------------

01	Press Home button on the remote control
02	Select Information Application <b>Version 4.73.60 is required by PADS4</b>

## 2.2 Updating firmware

Step	Description
01	Copy the firmware .epk file into the LG_MONITOR folder of a USB stick
02	Insert the USB Stick with the new firmware into the screen
03	Device will detect the USB stick and start the update automatically

## 2.3. Adjust PADS4 Viewer settings using the options screen









You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds.

## 3. Supported features and limitations

Support	Category	Description
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported.
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	Maximum number of videos 2 full HD videos.

		<p>Check out the supplier documentation for more info</p> <p>Video rotation Not supported</p> <p>Seamless videos In landscape orientation only</p> <p>Playback speed adjustment Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming HTTP, HTTPS, HLS V3, UDP *If the stream uses an encoder different from MP4, it is possible to add the encoder in the URI: mp4, mpegts, mp2t Example:rt-p://239.0.0.1/?encoding=mpegts</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources



	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically
	Presentation rules	Supported
	Page rules	Supported
	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed from a remote location
	Remote device management Web based and Windows	<p>Connection state    Device connection state information</p> <p>Alerts                Automatically send out alerts when network failures occur for this device</p> <p>Reboot                Supported</p> <p>Restart Viewer      Restart PADS4 Viewer</p> <p>Shutdown            Not supported</p> <p>Wake On Lan        Supported</p> <p>Screenshot          Retrieve screenshots for what is actually displayed</p> <p>Logs                  Viewer log, synchronization log, system info</p> <p>Viewer Settings    Edit Viewer Settings</p> <p>Fonts                 Install Fonts on device</p> <p>Proof of play        Show Proof of play information</p> <p>Blackbox            If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

## 4. Troubleshooting

Problem	Solution



# PADS4 Installation Manual

## Viewer on LG WebOS3.2

### Contents

1. [First time use](#)
  - 1.1. [Configuring the device](#)
  - 1.2. [Resetting the device](#)
2. [Installing PADS4 Viewer](#)
  - 2.1. [Checking device firmware](#)
  - 2.2. [Updating firmware](#)
  - 2.3. [Adjust PADS4 Viewer settings using the options screen](#)
3. [Supported features & limitations](#)
4. [Troubleshooting](#)

## 1. First time use

This document is related to the WebOS 3.2.

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

### 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Press and hold Settings button until an balloon icon appears at the right top
02	Press keys 0 0 0 0 followed by OK key on remote control
03	Select signage setup menu
04	Select factory reset option (at the bottom of the menu)
05	Confirm to start the factory reset

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer

Step	Description
01	Power on button
02	Press and hold Settings button until an balloon icon appears at the right top
03	Press keys 8 0 8 0 followed by OK key on remote control
04	Set Application launch mode to local
05	Set Fully qualified domain name to ON
06	Set the URL for normal or secured connection http://<server>/pads4/native/lg.zip https://<server>/pads4/native/lg.zip (secured connection using https)  Where <server> is the IP address or domain name of your PADS4 Server

07	Set the desired rotation (0,90,180,270)
08	Select remote option
09	Select Confirm to start the upgrade
10	After download power off/on the device

When finished the device will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### 2.1. Checking device firmware

To run the PADS4 viewer properly on the WebOS 3.2 and make sure that all functionality works, you need to have firmware as mentioned in step 4 installed on the device. Please check using the following steps.

Step	Description
01	Press Home button on the remote control
02	Select Information Application <b>Version 04.2.20 is required by PADS4</b>

### 2.2 Updating firmware

Step	Description
01	Copy the firmware .epk file into the LG_MONITOR folder of a USB stick
02	Insert the USB Stick with the new firmware into the screen
03	Device will detect the USB stick and start the update automatically





### 2.3. Adjust PADS4 Viewer settings using the options screen

You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds.

### 3. Supported features and limitations

Support	Category	Description
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported.
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 2 full HD videos. Check out the supplier documentation for more info</p> <p>Video rotation Not supported</p> <p>Seamless videos In landscape orientation only</p> <p>Playback speed adjustment Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming HTTP, HTTPS, HLS V3, UDP, RTP, RTPS multicast *If the stream uses an encoder different from MP4, it is possible to add the encoder in the URI: mp4, mpegts, mp2t Example:rt-p://239.0.0.1/?encoding=mpegts</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text ele-	Supported

	ment	
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically
<input checked="" type="checkbox"/>	Presentation rules	Supported
<input checked="" type="checkbox"/>	Page rules	Supported
<input checked="" type="checkbox"/>	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed from a remote location
<input checked="" type="checkbox"/>	Remote device management	Connection state    Device connection state information Alerts                    Automatically send out alerts when network failures occur for this device
	Web based and Windows	Reboot                    Supported Restart Viewer        Restart PADS4 Viewer Shutdown                Not supported Wake On Lan            Supported

		Screenshot Retrieve screenshots for what is actually displayed Logs Viewer log, synchronization log, system info Viewer Settings Edit Viewer Settings Fonts Install Fonts on device Proof of play Show Proof of play information Blackbox If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution



## PADS4 Installation Manual

# Viewer on LG WebOS4

## Contents

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2. [Installing PADS4 Viewer](#)
  - 2.1. [Checking device firmware](#)
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  - 2.3. [Adjust PADS4 Viewer settings using the options screen](#)
3. [Supported features & limitations](#)
4. [Troubleshooting](#)

## 1. First time use

This document is related to the WebOS4.

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

### 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Press Settings button (cog icon on remote control)
02	Select Admin



03	Select Turn On
04	Press keys 0 0 0 0 which is the default pin code
05	Confirm to start the factory reset

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer

Step	Description
01	Power on button
02	Press Settings button (cog icon on remote control)
03	Select EZ Settings
04	Select SI Server settings from right menu and press OK
05	Set Fully qualified domain name to ON
06	Set the URL for normal or secured connection http://<server>/pads4/native/lg.zip https://<server>/pads4/native/lg.zip (secured connection using https)  Where <server> is the IP address or domain name of your PADS4 Server
07	Set the desired rotation (0,90,180,270)
08	Set application launch mode to local
09	Installation type must be set to zip!
10	Select local application upgrade Remote
11	Select Confirm to start the upgrade
12	After download power off/on the device

When finished the device will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### 2.1. Checking device firmware

To run the PADS4 viewer properly on the WebOS4 and make sure that all functionality works, you need to have firmware as mentioned in step 4 installed on the device. Please check using the

following steps.

Step	Description
01	Press Home button on the remote control
02	Select Information Application <b>Version 04.03.40 is required by PADS4</b>

## 2.2 Updating firmware

Step	Description
01	Copy the firmware .epk file into the LG_MONITOR folder of a USB stick
02	Insert the USB Stick with the new firmware into the screen
03	Device will detect the USB stick and start the update automatically










## 2.3. Adjust PADS4 Viewer settings using the options screen

You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds.

## 3. Supported features and limitations

Support	Category	Description
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported.
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer

	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 2 full HD videos. Check out the supplier documentation for more info</p> <p>Video rotation Not supported</p> <p>Seamless videos In landscape orientation only</p> <p>Playback speed adjustment Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming HTTP, HTTPS, HLS V3, UDP, RTP, RTPS multicast *If the stream uses an encoder different from MP4, it is possible to add the encoder in the URI: mp4, mpegts, mp2t Example:rt-p://239.0.0.1/?encoding=mpegts</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections.

		It also gives the opportunity to centrally manage the content without changing presentations or data providers.
	Property bindings	Apply element properties by using external data sources
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically
	Presentation rules	Supported
	Page rules	Supported
	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed from a remote location
	Remote device management Web based and Windows	<p>Connection state      Device connection state information</p> <p>Alerts                      Automatically send out alerts when network failures occur for this device</p> <p>Reboot                      Supported</p> <p>Restart Viewer              Restart PADS4 Viewer</p> <p>Shutdown                      Not supported</p> <p>Wake On Lan                      Supported</p> <p>Screenshot                      Retrieve screenshots for what is actually displayed</p> <p>Logs                              Viewer log, synchronization log, system info</p> <p>Viewer Settings              Edit Viewer Settings</p> <p>Fonts                              Install Fonts on device</p> <p>Proof of play                      Show Proof of play information</p> <p>Blackbox                              If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

## 4. Troubleshooting

Problem	Solution



## PADS4 Installation Manual

### Viewer on LG WP400 JP

#### Contents

1. [First time use](#)
  - 1.1. [Configuring the device](#)
  - 1.2. [Resetting the device](#)
2. [Installing PADS4 Viewer](#)
  - 2.1. [Checking device firmware](#)
  - 2.2. [Updating firmware](#)
  - 2.3. [Adjust PADS4 Viewer settings using the options screen](#)
3. [Supported features & limitations](#)
4. [Troubleshooting](#)

## 1. First time use

This document is related to the LG WP400 JP.

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

### 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Press Settings button (cog icon on remote control)
02	Select Admin
03	Select Turn On
04	Press keys 0 0 0 0 0 0 which is the default pin code
05	Select Factory Reset and confirm to start the factory reset

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer

Step	Description
01	Power on button
02	Press Settings button on remote control
03	Select EZ Settings
04	Select SI Server settings (2x)
05	Activate "Fully Qualified Domain Name"
06	Set the URL for normal or secured connection http://<server>/pads4/native/lg.zip https://<server>/pads4/native/lg.zip (secured connection using https)  Where <server> is the IP address or domain name of your PADS4 Server

07	Put Application Launch mode on "Local"
08	Make sure that Application Type is "ZIP"
09	Go to Local Application Upgrade and select "Remote"
10	Restart device

When finished the device will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### 2.1. Checking device firmware

To run the PADS4 viewer properly on the WP400 JP and make sure that all functionality works, you need to have firmware as mentioned in step 4 installed on the device. Please check using the following steps.

Step	Description
01	Press Home button on the remote control
02	In the Dashboard look at the S/W version <b>Version 4.04.90 is required by PADS4</b>

### 2.2 Updating firmware

Step	Description
01	Copy the firmware .epk file into the LG_MONITOR folder of a USB stick
02	Insert the USB Stick with the new firmware into the screen
03	Device will detect the USB stick and start the update automatically

### 2.3. Adjust PADS4 Viewer settings using the options screen





You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds.

### 3. Supported features and limitations

Support	Category	Description												
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.												
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.												
	<b>Device</b>													
<input checked="" type="checkbox"/>	Portrait mode	Supported.												
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen												
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS												
<input type="checkbox"/>	Turn off display	Not supported												
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer												
	<b>Elements</b>													
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>2 videos. Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>In landscape orientation only</td> </tr> <tr> <td>Playback speed adjustment</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP, RTPS multicast</td> </tr> </table>	Maximum number of videos	2 videos. Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	In landscape orientation only	Playback speed adjustment	Not supported	Reflection, skew, flip	Not supported	Streaming	HTTP, RTPS multicast
Maximum number of videos	2 videos. Check out the supplier documentation for more info													
Video rotation	Not supported													
Seamless videos	In landscape orientation only													
Playback speed adjustment	Not supported													
Reflection, skew, flip	Not supported													
Streaming	HTTP, RTPS multicast													
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF												
<input checked="" type="checkbox"/>	Text element	Supported												
<input checked="" type="checkbox"/>	Line element	Supported												
<input checked="" type="checkbox"/>	Shape element	Supported												



<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically
<input checked="" type="checkbox"/>	Presentation rules	Supported
<input checked="" type="checkbox"/>	Page rules	Supported
<input checked="" type="checkbox"/>	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed from a remote location
<input checked="" type="checkbox"/>	Remote device management	Connection state      Device connection state information
	Web based and Windows	Alerts                      Automatically send out alerts

		<p>when network failures occur for this device</p> <p>Reboot Supported</p> <p>Restart Viewer Restart PADS4 Viewer</p> <p>Shutdown Not supported</p> <p>Wake On Lan Supported</p> <p>Screenshot Retrieve screenshots for what is actually displayed</p> <p>Logs Viewer log, synchronization log, system info</p> <p>Viewer Settings Edit Viewer Settings</p> <p>Fonts Install Fonts on device</p> <p>Proof of play Show Proof of play information</p> <p>Blackbox If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution



## Certified Viewer devices

This section shows the certified Viewer devices from Microsoft Windows.



## PADS4 Installation Manual

# Configuring Microsoft Windows OS

This page explains how to configure the player to run the PADS4 Viewer on Microsoft Windows based devices.

## Installation

During the first installation of PADS4 Viewer on a Microsoft Windows system, you will need the PADS4 Clients setup and select Viewer installation.

Please check out the [How to Install PADS4 Viewer](#) page for detailed information about installing the required software on Windows platforms.

## Supported Microsoft Windows versions

Serie	Version	Minimum PADS4 version required	Latest PADS4 version allowed
Windows Server	2019	4.0	
	2016	4.0	
	2012 R2	4.0	
	2012	4.0	
	2008 R2	4.0	
	2008	4.0	
Windows	10	4.0	
	10 LTSC/LTSB	4.0	
	10 IOT Enterprise	4.0	
	8.1	4.0	
	8	4.0	4.9
	7 SP1	4.0	



# Certified Viewer devices

This section shows the certified Viewer devices from Philips.



## PADS4 Installation Manual

### PADS4 Viewer on Philips series (<size>BDL3050Q)

#### Contents

1. First time use
  - 1.1. Configuring the device
  - 1.2. Resetting the device
2. Installing PADS4 Viewer
  - 2.1. Checking device firmware
  - 2.2. Updating device firmware
  - 2.3. Install PADS4Philips from USB stick
  - 2.4. Configuring the device for PADS4Philips
    - 2.4.1. Validate Date Time configuration
    - 2.4.2. Optional: Shutdown and Wake on LAN support
    - 2.4.3. Optional: Enable TeamViewer
  - 2.5. Connecting to PADS4 Server
  - 2.6. Adjust PADS4 Viewer settings using the options screen

- 2.7. [Updating PADS4 Viewer and PADS4Philips app](#)
- 2.8. [Accessing Android menu when PADS4 Viewer is running](#)
- 3. [Supported features & limitations](#)
- 4. [Troubleshooting](#)

## 1. First time use

During the installation, you will need to configure the PADS4 Server location. Best approach is to complete the installation of the PADS4 Server first, before continuing the configuration of the device.

**The minimum PADS4 Server version required for the PADS4Philips app is version PADS4 Foundation 2020.3.**

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Step	Description
01	In the Welcome screen select your preferred language and click start.
02	On the Security Setting screen, make sure that 'SICP Network Port' is enabled. Optionally you can enable or disable the other settings. Press next to continue.
03	On the Network Setting screen, select your preferred network type, press next and configure this accordingly.
04	On the Signage Display Settings screen, press the skip button.
05	On the Clone Media Files screen, also press the skip button.
06	Setup Complete press the finish button.

The device will show CMND & Deploy, an app supplied by Philips, you do not need to configure this app.

### 1.2. Resetting the device

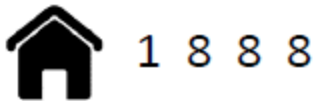
If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Enter the android menu by pressing the Home button followed by the numbers 1 8 8 8 on the

	remote control.
02	Open the settings.
03	Select System Tools -> Factory Reset.
04	Click on Factory Reset and confirm by pressing OK.

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer



To install the PADS4 Viewer on the Philips display, you first need to get in the android menu of this device. To open the android menu, press the home button followed by numbers 1 8 8 8 on the Philips remote control.

### 2.1. Checking device firmware

To run the PADS4 viewer properly on the xxBDL3050Q and make sure that all functionality works, you need to have firmware version FB05.06T\_Cromium installed on the device. Please check using the following steps.

Step	Description
01	Enter the android menu by pressing home 1 8 8 8.
02	Open the settings.
03	Select about.
04	The build number should match FB05.06T_Chromium

### 2.2. Updating device firmware

To update the firmware please follow the instructions in the document provided by Philips:  
<https://www.dropbox.com/s/rimwgykylxwvocr/xxBDL3050Q%20%28QL3%2905.06T.pptx?dl=0>

### 2.3. Install PADS4Philips from USB stick

The PADS4Philips.apk can be found on the PADS4 Server in the apps folder of the PADS4 installation directory. The default PADS4 installation directory is 'C:\Program Files\Net Display Systems\PADS4'.

You can also download the latest version of PADS4Philips from <http://go.pads4.com/?fwlink=1006>.

**If you download the latest version, make sure that you will also place it in the apps directory**

**on the PADS4 Server, because if the server is containing a different version, it will install that version of the PADS4Philips app, once connected to the PADS4 Server.**

Step	Description
01	Copy the PADS4Philips.apk on a USB stick.
02	Insert the USB stick into the device.
03	Enter the android menu by pressing home 1 8 8 8.
04	Select Storage -> your USB drive and open the PADS4Philips.apk.
05	Select install and after installation open the app.

## 2.4. Configuring the device for PADS4Philips

Next we are going to change the device setting to make sure it automatically start the PADS4 Viewer on device startup.

Step	Description
01	In the PADS4Philips app open Android settings by clicking on System Settings.
02	Select Signage Display -> Custom App.
03	Click Select App, then select PADS4Philips and press save.
04	Press 3x back until you reached PADS4Philips app.
05	Then open the Philips OSD Menu pressing the home button.
06	Open the configuration 1 sub menu and select Boot on source.
07	Select input custom and press back.
08	Close OSD menu.

### 2.4.1. Validate Date Time configuration

Validate if the date and time are setup correctly on the device, otherwise it is possible that you will get certificate errors or other connection issues.

Step	Description
01	Open the Philips OSD menu by pressing the Home button on the remote.
02	Go to Advanced option sub menu and select date and time.
03	In the date and time menu configure the date & time correctly and if the network allows it you can enable auto sync date and time.
04	Go back to the PADS4Philips app.



### 2.4.2. Optional: Shutdown and Wake on LAN support.

If you want to be able to power off and start the device with the PADS4 Agent. You need to change power state to last status and enable Wake on LAN (WOL). The default power option Force On, mean the device will always be turned on when connected to a power socket.

Step	Description
01	Open the Philips OSD menu by pressing the Home button on the remote.
02	Open the configuration 1 sub menu.
03	Select Switch on state and change to Last status.
04	Select WOL and turn On.
05	Close OSD menu.

### 2.4.3. Optional: Enable TeamViewer

If you have a TeamViewer account, you can connect your Philips device to TeamViewer to manage the device remotely.

Step	Description
01	Enter the android menu by pressing home 1 8 8 8.
02	Select Settings and go to Signage Display.
03	Enable TeamViewer Support, if not already enabled.
04	Go back to the android menu.
05	Select Apps and open the Host app. (TeamViewer Host)
06	Specify your TeamViewer account, click assign device.
07	Follow the instructions from the email that you will receive from TeamViewer.
08	Click on assign again.
09	Go back to the PADS4Philips App.

## 2.5. Connecting to PADS4 Server

Now the device is ready to run the PADS4 Viewer and we only need to connect to the PADS4 Server. To do this, you only need to specify the PADS4 Server Address and press the start button. The PADS4 Server Address format looks like this:

<protocol>://<host>:<port>/<hostpath>/

- Protocol: should either be http or https, depending if you are hosting with a valid public signed ssl certificate
- Host: DNS name or ip address of the PADS4 Server

- Port: is optional, if the PADS4 server not using the default ports for http or https, you should specify the port number.
- The configured hostpath in system management, the default value is PADS4.

Example: http://localhost/pads4

Connecting to the PADS4 Server:

Step	Description
01	Specify the correct PADS4 Server Location.
02	Optionally specify a viewer name, if not specified the PADS4 Server will generate one.
03	Press the start button.
04	Wait until the viewer download is finished, then the viewer will start.
05	The first time it will ask for the permission to permanently store content on the device, grant this permission.

Now the viewer should start and connect to the PADS4 Server. After that, you can configure the other settings like screen orientation or block remote control with the PADS4 Agent or in the Viewer Settings.

## 2.6. Adjust PADS4 Viewer settings using the options screen

You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds. In the options screen you can also return to the PADS4Philips app by pressing the Launcher Settings button.

## 2.7. Updating PADS4 Viewer and PADS4Philips app

After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app will automatically update to the version available on the PADS4 Server.






## 2.8. Accessing Android menu when PADS4 Viewer is running

If you open the Android menu by pressing home 1 8 8 8, on the remote control, when the PADS4 Viewer is running, it will probably restart the device in about 30 seconds. This is because the viewer monitor service detects that the viewer is no longer running and because of this the device will reboot. To access the menu properly, you first need to open the PADS4Philips App as described in '2.6 Adjust PADS4 Viewer settings using the options screen'. Then you can press home 1 8 8 8 without the device rebooting.

### 3. Supported features and limitations xxBDL3050Q

Support	Category	Description										
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app will automatically update to the version available on the PADS4 Server.										
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.										
	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input checked="" type="checkbox"/>	Turn off display	Turn off display when no presentation scheduled. Device still active but backlight is turned off for less power consumption										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>1 video on each page. Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>In landscape mode only</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	1 video on each page. Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	In landscape mode only	Reflection, skew, flip	Not supported	Streaming	HTTP
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Video rotation	Not supported											
Seamless videos	In landscape mode only											
Reflection, skew, flip	Not supported											
Streaming	HTTP											
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										

<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically
<input checked="" type="checkbox"/>	Presentation rules	Supported
<input checked="" type="checkbox"/>	Page rules	Supported
<input checked="" type="checkbox"/>	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed from a remote location

	<p>Remote device management</p> <p>Web based and Windows</p>	<p>Connection state      Device connection state information</p> <p>Alerts                      Automatically send out alerts when network failures occur for this device</p> <p>Reboot                      Reboot device</p> <p>Restart Viewer            Restart PADS4 Viewer</p> <p>Shutdown                  Shutdown device</p> <p>Wake On Lan              Remotely start device</p> <p>Screenshot                Retrieve screenshots for what is actually displayed</p> <p>Logs                         Viewer log, synchronization log, system info</p> <p>Viewer Settings          Edit Viewer Settings</p> <p>Fonts                        Install Fonts on device</p> <p>Proof of play              Show Proof of play information</p> <p>Blackbox                    If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<p><b>Remarks</b></p>	
	<p>Colors</p>	<p>Texture and pattern colors are not supported</p>
	<p>Transition effects</p>	<p>Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported</p>
	<p>Content file integrity</p>	<p>PADS4 Content Library file integrity is checked during synchronization using MD5</p>
	<p>Proof of play</p>	<p>Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.</p>

#### 4. Troubleshooting

Problem	Solution
<p>Block remote control, turn off display, shutdown command and other native command on Philips device are not working.</p>	<p>Make sure sicp over network is enabled</p>

	and hosted on port 5000.
When the viewer is starting, the browser is not running full screen.	Check your firmware version, probably an incompatible version of the firmware is installed.
Device fails to connect to the network over Ethernet.	Updating the firmware might solve this problem.
The navigation bar is visible on the device.	Updating the firmware should solve this problem.
Every time the viewer starts, it asks for the permission to permanently store content on the device.	Check your firmware version, probably an incompatible version of the firmware is installed.
Device not starting on WOL command.	Check if the WOL is enabled on the device and that a power save mode is selected, that allows WOL.
Used valid certificate is not accepted by the PADS4Philips app.	Check if the date and time are configured correctly on the device.



## PADS4 Installation Manual

# PADS4 Viewer on Philips series (<size>BDL4050D)

## Contents

1. First time use
  - 1.1. Configuring the device
  - 1.2. Resetting the device
2. Installing PADS4 Viewer
  - 2.1. Checking device firmware
  - 2.2. Updating device firmware
  - 2.3. Install PADS4Philips from USB stick
  - 2.4. Configuring the device for PADS4Philips
    - 2.4.1. Validate Date Time configuration
    - 2.4.2. Optional: Shutdown and Wake on LAN support
    - 2.4.3. Optional: Enable TeamViewer
  - 2.5. Connecting to PADS4 Server
  - 2.6. Adjust PADS4 Viewer settings using the options screen
  - 2.7. Updating PADS4 Viewer and PADS4Philips app
  - 2.8. Accessing Android menu when PADS4 Viewer is running
3. Supported features & limitations
4. Troubleshooting

## 1. First time use

During the installation, you will need to configure the PADS4 Server location. Best approach is to complete the installation of the PADS4 Server first, before continuing the configuration of the device.

**The minimum PADS4 Server version required for the PADS4Philips app is version PADS4 Foundation 2020.3.**

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Step	Description
01	In the Welcome screen select your preferred language and click start.
02	On the Security Setting screen, make sure that 'SICP Network Port' is enabled. Optionally you can enable or disable the other settings. Press next to continue.
03	On the Network Setting screen, select your preferred network type, press next and configure this accordingly.
04	On the Signage Display Settings screen, press the skip button.
05	On the Clone Media Files screen, also press the skip button.
05	Setup Complete press the finish button.

The device will show CMND & Deploy, an app supplied by Philips, you do not need to configure this app.

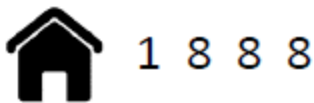
### 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Enter the android menu by pressing the Home button followed by the numbers 1 8 8 8 on the remote control.
02	Open the settings.
03	Select System Tools -> Factory Reset.
04	Click on Factory Reset and confirm by pressing OK.

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer



To install the PADS4 Viewer on the Philips display, you first need to get in the android menu of this



device. To open the android menu, press the home button followed by numbers 1 8 8 8 on the Philips remote control.

### 2.1. Checking device firmware

To run the PADS4 viewer properly on the xxBDL4050D and make sure that all functionality works, you need to have firmware version FB11.04 installed on the device. Please check using the following steps.

Step	Description
01	Enter the android menu by pressing home 1 8 8 8.
02	Open the settings.
03	Select about.
04	The build number should match FB11.4

### 2.2. Updating device firmware

To update the firmware please follow the instructions in the document provided by Philips:  
[https://www.dropbox.com/s/xi0oh0ktytp0fp1/XXBDL4050D\\_Android%2011\\_04.pdf?dl=0](https://www.dropbox.com/s/xi0oh0ktytp0fp1/XXBDL4050D_Android%2011_04.pdf?dl=0)

### 2.3. Install PADS4Philips from USB stick

The PADS4Philips.apk can be found on the PADS4 Server in the apps folder of the PADS4 installation directory. The default PADS4 installation directory is 'C:\Program Files\Net Display Systems\PADS4'.

You can also download the latest version of PADS4Philips from <http://go.pads4.com/?fwlink=1006>.

**If you download the latest version, make sure that you will also place it in the apps directory on the PADS4 Server, because if the server is containing a different version, it will install that version of the PADS4Philips app, once connected to the PADS4 Server.**

Step	Description
01	Copy the PADS4Philips.apk on a USB stick.
02	Insert the USB stick into the device.
03	Enter the android menu by pressing home 1 8 8 8.
04	Select Apps and open the File Manager app.
05	Open folders mnt -> usb_storage and open the PADS4Philips.apk.
06	Select install and after installation open the app.

## 2.4. Configuring the device for PADS4Philips

Next we are going to change the device setting to make sure it automatically start the PADS4 Viewer on device startup.

Step	Description
01	In the PADS4Philips app open Android settings by clicking on System Settings.
02	Select Signage Display -> Custom app.
03	Click Select App, then select PADS4Philips and press save.
04	Enable force restart custom app.
05	Press 3x back until you reached PADS4Philips app.
06	Then open the Philips OSD Menu pressing the home button.
07	Open the configuration 1 sub menu and select Boot on source.
08	Select input custom and press back.
09	Close OSD menu.

### 2.4.1. Validate Date Time configuration

Validate if the date and time are setup correctly on the device, otherwise it is possible that you will get certificate errors or other connection issues.

Step	Description
01	Open the Philips OSD menu by pressing the Home button on the remote.
02	Go to Advanced option sub menu and select date and time.
03	In the date and time menu configure the date & time correctly and if the network allows it you can enable auto sync date and time.
04	Go back to the PADS4Philips app.

### 2.4.2. Optional: Shutdown and Wake on LAN support.

If you want to be able to power off and start the device with the PADS4 Agent. You need to change power state to last status and enable Wake on LAN (WOL). The default power option Force On, mean the device will always be turned on when connected to a power socket.

Step	Description
01	Open the Philips OSD menu by pressing the Home button on the remote.
02	Open the configuration 1 sub menu.
03	Select Switch on state and change to Last status.
04	Select WOL and turn On.
05	Close OSD menu.

### 2.4.3. Optional: Enable TeamViewer

If you have a TeamViewer account, you can connect your Philips device to TeamViewer to manage the device remotely.

Step	Description
01	Enter the android menu by pressing home 1 8 8 8.
02	Select Settings and go to Signage Display.
03	Enable TeamViewer Support, if not already enabled.
04	Go back to the android menu.
05	Select Apps and open the Host app. (TeamViewer Host)
06	Specify your TeamViewer account, click assign device.
07	Follow the instructions from the email that you will receive from TeamViewer.
08	Click on assign again.
09	Go back to the PADS4Philips App.

### 2.5. Connecting to PADS4 Server

Now the device is ready to run the PADS4 Viewer and we only need to connect to the PADS4 Server. To do this, you only need to specify the PADS4 Server Address and press the start button. The PADS4 Server Address format looks like this:

<protocol>://<host>:<port>/<hostpath>/

- Protocol: should either be http or https, depending if you are hosting with a valid public signed ssl certificate
- Host: DNS name or ip address of the PADS4 Server
- Port: is optional, if the PADS4 server not using the default ports for http or https, you should specify the port number.
- The configured hostpath in system management, the default value is PADS4.

Example: http://localhost/pads4

Connecting to the PADS4 Server:

Step	Description
01	Specify the correct PADS4 Server Location.
02	Optionally specify a viewer name, if not specified the PADS4 Server will generate one.
03	Press the start button.
04	Wait until the viewer download is finished, then the viewer will start.
05	The first time it will ask for the permission to permanently store content on the device, grant this permission.

Now the viewer should start and connect to the PADS4 Server. After that, you can configure the other settings like screen orientation or block remote control with the PADS4 Agent or in the Viewer Settings.

## 2.6. Adjust PADS4 Viewer settings using the options screen

You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds. In the options screen you can also return to the PADS4Philips app by pressing the Launcher Settings button.



## 2.7. Updating PADS4 Viewer and PADS4Philips app

After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app will automatically update to the version available on the PADS4 Server.

## 2.8. Accessing Android menu when PADS4 Viewer is running





If you open the Android menu by pressing home 1 8 8 8, on the remote control, when the PADS4 Viewer is running, it will probably restart the device in about 30 seconds. This is because the viewer monitor service detects that the viewer is no longer running and because of this the device will reboot. To access the menu properly, you first need to open the PADS4Philips App as described in '2.6 Adjust PADS4 Viewer settings using the options screen'. Then you can press home 1 8 8 8 without the device rebooting.

## 3. Supported features and limitations xxBDL4050D

Support	Category	Description
	Automatic PADS4 Software updates	After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app will automatically update to the version available on the PADS4 Server.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	

<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input checked="" type="checkbox"/>	Turn off display	Turn off display when no presentation scheduled. Device still active but backlight is turned off for less power consumption										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>1 video on each page. Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>In landscape mode only</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	1 video on each page. Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	In landscape mode only	Reflection, skew, flip	Not supported	Streaming	HTTP
Maximum number of videos	1 video on each page. Check out the supplier documentation for more info											
Video rotation	Not supported											
Seamless videos	In landscape mode only											
Reflection, skew, flip	Not supported											
Streaming	HTTP											
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										
<input checked="" type="checkbox"/>	Line element	Supported										
<input checked="" type="checkbox"/>	Shape element	Supported										
<input checked="" type="checkbox"/>	Scrolling text element	Supported										
<input checked="" type="checkbox"/>	Formatted text element	Supported										
	Flash element	Not supported										
<input checked="" type="checkbox"/>	Table element	Supported										
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported										
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported										

	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations																		
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																		
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																		
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources																		
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																		
<input checked="" type="checkbox"/>	Presentation rules	Supported																		
<input checked="" type="checkbox"/>	Page rules	Supported																		
<input checked="" type="checkbox"/>	Element rules	Supported																		
	<b>Device Management</b>	Device management which can be performed from a remote location																		
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Reboot device</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Shutdown device</td> </tr> <tr> <td>Wake On Lan</td> <td>Remotely start device</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Reboot device	Restart Viewer	Restart PADS4 Viewer	Shutdown	Shutdown device	Wake On Lan	Remotely start device	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings
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Alerts	Automatically send out alerts when network failures occur for this device																			
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Shutdown	Shutdown device																			
Wake On Lan	Remotely start device																			
Screenshot	Retrieve screenshots for what is actually displayed																			
Logs	Viewer log, synchronization log, system info																			
Viewer Settings	Edit Viewer Settings																			

		Fonts	Install Fonts on device
		Proof of play	Show Proof of play information
		Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution
Block remote control, turn off display, shutdown command and other native command on Philips device are not working.	Make sure sicmp over network is enabled and hosted on port 5000.
When the viewer is starting, the browser is not running full screen.	Check your firmware version, probably an incompatible version of the firmware is installed.
Device fails to connect to the network over Ethernet.	Updating the firmware might solve this problem.
The navigation bar is visible on the device.	Updating the firmware should solve this problem.
Every time the viewer starts, it asks for the permission to permanently store content on the device.	Check your firmware version, probably an

	incompatible version of the firmware is installed.
--	--



## **PADS4 Installation Manual**

### **PADS4 Viewer on Philips series (<size>BDL4150D)**

#### Contents

1. First time use
  - 1.1. Configuring the device
  - 1.2. Resetting the device
2. Installing PADS4 Viewer
  - 2.1. Checking device firmware
  - 2.2. Updating device firmware
  - 2.3. Install PADS4Philips from USB stick
  - 2.4. Configuring the device for PADS4Philips
    - 2.4.1. Validate Date Time configuration
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    - 2.4.3. Optional: Enable TeamViewer
  - 2.5. Connecting to PADS4 Server
  - 2.6. Adjust PADS4 Viewer settings using the options screen
  - 2.7. Updating PADS4 Viewer and PADS4Philips app



## 2.8. Accessing Android menu when PADS4 Viewer is running

## 3. Supported features & limitations

## 4. Troubleshooting

### 1. First time use

During the installation, you will need to configure the PADS4 Server location. Best approach is to complete the installation of the PADS4 Server first, before continuing the configuration of the device.

**The minimum PADS4 Server version required for the PADS4Philips app is version PADS4 Foundation 2020.3.**

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

#### 1.1. Configuring the device

Step	Description
01	In the Welcome screen select your preferred language and click start.
02	On the Security Setting screen, make sure that 'SICP Network Port' is enabled. Optionally you can enable or disable the other settings. Press next to continue.
03	On the Signage Display Settings screen, press the skip button.
04	On the Network Setting screen, select your preferred network type, press next and configure this accordingly.
05	On the Clone Media Files screen, also press the skip button.
05	Setup Complete press the finish button.

The device will show CMND & Deploy, an app supplied by Philips, you do not need to configure this app.

#### 1.2. Resetting the device

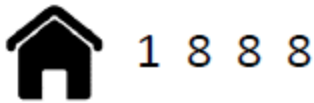
If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Enter the android menu by pressing the Home button followed by the numbers 1 8 8 8 on the remote control.

02	Open the settings.
03	Select Signage Display -> System Tools -> Factory Reset.
04	Click on Factory Reset and confirm by pressing OK.

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer



To install the PADS4 Viewer on the Philips display, you first need to get in the android menu of this device. To open the android menu, press the home button followed by numbers 1 8 8 8 on the Philips remote control.

### 2.1. Checking device firmware

To run the PADS4 viewer properly on the xxBDL4150D and make sure that all functionality works, you need to have firmware version FB04.7 installed on the device. Please check using the following steps.

Step	Description
01	Enter the android menu by pressing home 1 8 8 8.
02	Open the settings.
03	Select about.
04	The build number should match FB04.7

### 2.2. Updating device firmware

To update the firmware please follow the instructions in the document provided by Philips:  
<https://www.dropbox.com/s/3xuahr7rinmtvqw/FB04.07%20%26%201.130.pdf?dl=0>

### 2.3. Install PADS4Philips from USB stick

The PADS4Philips.apk can be found on the PADS4 Server in the apps folder of the PADS4 installation directory. The default PADS4 installation directory is 'C:\Program Files\Net Display Systems\PADS4'.

You can also download the latest version of PADS4Philips from <http://go.pads4.com/?fwlink=1006>.

**If you download the latest version, make sure that you will also place it in the apps directory**

**on the PADS4 Server, because if the server is containing a different version, it will install that version of the PADS4Philips app, once connected to the PADS4 Server.**

Step	Description
01	Copy the PADS4Philips.apk on a USB stick.
02	Insert the USB stick into the device.
03	Enter the android menu by pressing home 1 8 8 8.
04	Select Storage -> your USB drive and open the PADS4Philips.apk.
05	Select install and after installation open the app.

## 2.4. Configuring the device for PADS4Philips

Next we are going to change the device setting to make sure it automatically start the PADS4 Viewer on device startup.

Step	Description
01	In the PADS4Philips app open Android settings by clicking on System Settings.
02	Select Signage Display -> Source settings -> Custom App.
03	Click Select App, then select PADS4Philips and press save.
04	Enable force restart custom app.
05	Press 4x back until you reached PADS4Philips app.
06	Then open the Philips OSD Menu pressing the home button.
07	Open the configuration 1 sub menu and select Boot on source.
08	Select input custom and press back.
09	Close OSD menu.

### 2.4.1. Validate Date Time configuration

Validate if the date and time are setup correctly on the device, otherwise it is possible that you will get certificate errors or other connection issues.

Step	Description
01	Open the Philips OSD menu by pressing the Home button on the remote.
02	Go to Advanced option sub menu and select date and time.
03	In the date and time menu configure the date & time correctly and if the network allows it you can enable auto sync date and time.
04	Go back to the PADS4Philips app.

### 2.4.2. Optional: Shutdown and Wake on LAN support.

If you want to be able to power off and start the device with the PADS4 Agent. You need to change power state to last status and enable Wake on LAN (WOL). The default power option Force On, mean the device will always be turned on when connected to a power socket.

Step	Description
01	Open the Philips OSD menu by pressing the Home button on the remote.
02	Open the configuration 1 sub menu.
03	Select Switch on state and change to Last status.
04	Press back and open the advanced option sub menu.
05	Scroll down to the APM (Advanced Power Management) option and select mode1 (TCP off, WOL on).
06	Close OSD menu.

### 2.4.3. Optional: Enable TeamViewer

If you have a TeamViewer account, you can connect your Philips device to TeamViewer to manage the device remotely.

Step	Description
01	Enter the android menu by pressing home 1 8 8 8.
02	Select Settings and go to Signage Display -> Misc.
03	Enable TeamViewer Support, if not already enabled.
04	Go back to the android menu.
05	Select Apps and open the Host app. (TeamViewer Host)
06	Specify your TeamViewer account, click assign device.
07	Follow the instructions from the email that you will receive from TeamViewer.
08	Click on assign again.
09	Go back to the PADS4Philips App.

## 2.5. Connecting to PADS4 Server

Now the device is ready to run the PADS4 Viewer and we only need to connect to the PADS4 Server. To do this, you only need to specify the PADS4 Server Address and press the start button. The PADS4 Server Address format looks like this:

<protocol>://<host>:<port>/<hostpath>/

- Protocol: should either be http or https, depending if you are hosting with a valid public signed ssl certificate

- Host: DNS name or ip address of the PADS4 Server
- Port: is optional, if the PADS4 server not using the default ports for http or https, you should specify the port number.
- The configured hostpath in system management, the default value is PADS4.

Example: http://localhost/pads4

Connecting to the PADS4 Server:

Step	Description
01	Specify the correct PADS4 Server Location.
02	Optionally specify a viewer name, if not specified the PADS4 Server will generate one.
03	Press the start button.
04	Wait until the viewer download is finished, then the viewer will start.
05	The first time it will ask for the permission to permanently store content on the device, grant this permission.

Now the viewer should start and connect to the PADS4 Server. After that, you can configure the other settings like screen orientation or block remote control with the PADS4 Agent or in the Viewer Settings.

## 2.6. Adjust PADS4 Viewer settings using the options screen

You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds. In the options screen you can also return to the PADS4Philips app by pressing the Launcher Settings button.

## 2.7. Updating PADS4 Viewer and PADS4Philips app

After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app will automatically update to the version available on the PADS4 Server.






## 2.8. Accessing Android menu when PADS4 Viewer is running

If you open the Android menu by pressing home 1 8 8 8, on the remote control, when the PADS4 Viewer is running, it will probably restart the device in about 30 seconds. This is because the viewer monitor service detects that the viewer is no longer running and because of this the device will reboot. To access the menu properly, you first need to open the PADS4Philips App as described in '2.6 Adjust PADS4 Viewer settings using the options screen'. Then you can press home 1 8 8 8 without the device rebooting.

### 3. Supported features and limitations xxBDL4150D

Support	Category	Description										
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app will automatically update to the version available on the PADS4 Server.										
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.										
	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input checked="" type="checkbox"/>	Turn off display	Turn off display when no presentation scheduled. Device still active but backlight is turned off for less power consumption										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>4 videos on each page. Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>In landscape mode only</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	4 videos on each page. Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	In landscape mode only	Reflection, skew, flip	Not supported	Streaming	HTTP
Maximum number of videos	4 videos on each page. Check out the supplier documentation for more info											
Video rotation	Not supported											
Seamless videos	In landscape mode only											
Reflection, skew, flip	Not supported											
Streaming	HTTP											
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										

<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically
<input checked="" type="checkbox"/>	Presentation rules	Supported
<input checked="" type="checkbox"/>	Page rules	Supported
<input checked="" type="checkbox"/>	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed from a remote location

	<p>Remote device management</p> <p>Web based and Windows</p>	<p>Connection state      Device connection state information</p> <p>Alerts                      Automatically send out alerts when network failures occur for this device</p> <p>Reboot                      Reboot device</p> <p>Restart Viewer            Restart PADS4 Viewer</p> <p>Shutdown                  Shutdown device</p> <p>Wake On Lan              Remotely start device</p> <p>Screenshot                Retrieve screenshots for what is actually displayed</p> <p>Logs                        Viewer log, synchronization log, system info</p> <p>Viewer Settings          Edit Viewer Settings</p> <p>Fonts                        Install Fonts on device</p> <p>Proof of play              Show Proof of play information</p> <p>Blackbox                    If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<p><b>Remarks</b></p>	
	<p>Colors</p>	<p>Texture and pattern colors are not supported</p>
	<p>Transition effects</p>	<p>Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported</p>
	<p>Content file integrity</p>	<p>PADS4 Content Library file integrity is checked during synchronization using MD5</p>
	<p>Proof of play</p>	<p>Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.</p>

#### 4. Troubleshooting

Problem	Solution
<p>Block remote control, turn off display, shutdown command and other native command on Philips device are not working.</p>	<p>Make sure sicp over network is enabled</p>



	and hosted on port 5000.
When the viewer is starting, the browser is not running full screen.	Check your firmware version, probably an incompatible version of the firmware is installed.
Device fails to connect to the network over Ethernet.	Updating the firmware might solve this problem.
The navigation bar is visible on the device.	Updating the firmware should solve this problem.
Every time the viewer starts, it asks for the permission to permanently store content on the device.	Check your firmware version, probably an incompatible version of the firmware is installed.
Device not starting on WOL command.	Check if the WOL is enabled on the device and that a power save mode is selected, that allows WOL.
Used valid certificate is not accepted by the PADS4Philips app.	Check if the date and time are configured correctly on the device.



## PADS4 Installation Manual

# PADS4 Viewer on Philips series (<size>BDL505xP)

## Contents

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  - 1.1. Configuring the device
  - 1.2. Resetting the device
2. Installing PADS4 Viewer
  - 2.1. Checking device firmware
  - 2.2. Updating device firmware
  - 2.3. Install PADS4Philips from USB stick
  - 2.4. Configuring the device for PADS4Philips
    - 2.4.1. Validate Date Time configuration
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    - 2.4.3. Optional: Enable TeamViewer
  - 2.5. Connecting to PADS4 Server
  - 2.6. Adjust PADS4 Viewer settings using the options screen
  - 2.7. Updating PADS4 Viewer and PADS4Philips app
  - 2.8. Accessing Android menu when PADS4 Viewer is running
3. Supported features & limitations
4. Troubleshooting

## 1. First time use

During the installation, you will need to configure the PADS4 Server location. Best approach is to complete the installation of the PADS4 Server first, before continuing the configuration of the device.

**The minimum PADS4 Server version required for the PADS4Philips app is version PADS4 Foundation 2020.3.**

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Step	Description
01	In the Welcome screen select your preferred language and click start.
02	On the Security Setting screen, make sure that 'SICP Network Port' is enabled. Optionally you can enable or disable the other settings. Press next to continue.
03	On the Network Setting screen, select your preferred network type, press next and configure this accordingly.
04	On the Signage Display Settings screen, press the skip button.
05	On the Clone Media Files screen, also press the skip button.
06	Setup Complete press the finish button.

The device will show CMND & Deploy, an app supplied by Philips, you do not need to configure this app.

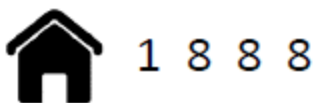
### 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Enter the android menu by pressing the Home button followed by the numbers 1 8 8 8 on the remote control.
02	Open the settings.
03	Select System Tools -> Factory Reset.
04	Click on Factory Reset and confirm by pressing OK.

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer



To install the PADS4 Viewer on the Philips display, you first need to get in the android menu of this

device. To open the android menu, press the home button followed by numbers 1 8 8 8 on the Philips remote control.

### 2.1. Checking device firmware

To run the PADS4 viewer properly on the xxBDL505xP and make sure that all functionality works, you need to have firmware version FB07.7 installed on the device. Please check using the following steps.

Step	Description
01	Enter the android menu by pressing home 1 8 8 8.
02	Open the settings.
03	Select about.
04	The build number should match FB07.7

### 2.2. Updating device firmware

To update the firmware please follow the instructions in the document provided by Philips:  
[https://www.dropbox.com/s/srqgx37qimlifo0/XXBDL505xP\\_Android-%20FB07.07%20%26%20scaler%201\\_315.pdf?dl=0](https://www.dropbox.com/s/srqgx37qimlifo0/XXBDL505xP_Android-%20FB07.07%20%26%20scaler%201_315.pdf?dl=0)

### 2.3. Install PADS4Philips from USB stick

The PADS4Philips.apk can be found on the PADS4 Server in the apps folder of the PADS4 installation directory. The default PADS4 installation directory is 'C:\Program Files\Net Display Systems\PADS4'.

You can also download the latest version of PADS4Philips from <http://go.pads4.com/?fwlink=1006>.

**If you download the latest version, make sure that you will also place it in the apps directory on the PADS4 Server, because if the server is containing a different version, it will install that version of the PADS4Philips app, once connected to the PADS4 Server.**

Step	Description
01	Copy the PADS4Philips.apk on a USB stick.
02	Insert the USB stick into the device.
03	Enter the android menu by pressing home 1 8 8 8.
04	Select Apps and open the File Manager app.
05	Open folders mnt -> usb_storage and open the PADS4Philips.apk.
06	Select install and after installation open the app.

## 2.4. Configuring the device for PADS4Philips

Next we are going to change the device setting to make sure it automatically start the PADS4 Viewer on device startup.

Step	Description
01	In the PADS4Philips app open Android settings by clicking on System Settings.
02	Select Signage Display -> Custom App.
03	Click Select App, then select PADS4Philips and press save.
04	Enable force restart custom app.
05	Press 3x back until you reached PADS4Philips app.
06	Then open the Philips OSD Menu pressing the home button.
07	Open the configuration 1 sub menu and select Boot on source.
08	Select input custom and press back.
09	Close OSD menu.

### 2.4.1. Validate Date Time configuration

Validate if the date and time are setup correctly on the device, otherwise it is possible that you will get certificate errors or other connection issues.

Step	Description
01	Open the Philips OSD menu by pressing the Home button on the remote.
02	Go to Advanced option sub menu and select date and time.
03	In the date and time menu configure the date & time correctly and if the network allows it you can enable auto sync date and time.
04	Go back to the PADS4Philips app.

### 2.4.2. Optional: Shutdown and Wake on LAN support.

If you want to be able to power off and start the device with the PADS4 Agent. You need to change power state to last status and enable Wake on LAN (WOL). The default power option Force On, mean the device will always be turned on when connected to a power socket.

Step	Description
01	Open the Philips OSD menu by pressing the Home button on the remote.
02	Open the configuration 1 sub menu.
03	Select Switch on state and change to Last status.
04	Select WOL and turn On.
05	Close OSD menu.

### 2.4.3. Optional: Enable TeamViewer

If you have a TeamViewer account, you can connect your Philips device to TeamViewer to manage the device remotely.

Step	Description
01	Enter the android menu by pressing home 1 8 8 8.
02	Select Settings and go to Signage Display.
03	Enable TeamViewer Support, if not already enabled.
04	Go back to the android menu.
05	Select Apps and open the Host app. (TeamViewer Host)
06	Specify your TeamViewer account, click assign device.
07	Follow the instructions from the email that you will receive from TeamViewer.
08	Click on assign again.
09	Go back to the PADS4Philips App.

### 2.5. Connecting to PADS4 Server

Now the device is ready to run the PADS4 Viewer and we only need to connect to the PADS4 Server. To do this, you only need to specify the PADS4 Server Address and press the start button. The PADS4 Server Address format looks like this:

<protocol>://<host>:<port>/<hostpath>/

- Protocol: should either be http or https, depending if you are hosting with a valid public signed ssl certificate
- Host: DNS name or ip address of the PADS4 Server
- Port: is optional, if the PADS4 server not using the default ports for http or https, you should specify the port number.
- The configured hostpath in system management, the default value is PADS4.

Example: http://localhost/pads4

Connecting to the PADS4 Server:

Step	Description
01	Specify the correct PADS4 Server Location.
02	Optionally specify a viewer name, if not specified the PADS4 Server will generate one.
03	Press the start button.
04	Wait until the viewer download is finished, then the viewer will start.
05	The first time it will ask for the permission to permanently store content on the device, grant this permission.

Now the viewer should start and connect to the PADS4 Server. After that, you can configure the other settings like screen orientation or block remote control with the PADS4 Agent or in the Viewer Settings.

## 2.6. Adjust PADS4 Viewer settings using the options screen

You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds. In the options screen you can also return to the PADS4Philips app by pressing the Launcher Settings button.



## 2.7. Updating PADS4 Viewer and PADS4Philips app

After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app will automatically update to the version available on the PADS4 Server.

## 2.8. Accessing Android menu when PADS4 Viewer is running

If you open the Android menu by pressing home 1 8 8 8, on the remote control, when the PADS4 Viewer is running, it will probably restart the device in about 30 seconds. This is because the viewer monitor service detects that the viewer is no longer running and because of this the device will reboot. To access the menu properly, you first need to open the PADS4Philips App as described in '2.6 Adjust PADS4 Viewer settings using the options screen'. Then you can press home 1 8 8 8 without the device rebooting.





## 3. Supported features and limitations xxBDL505xP

Support	Category	Description
	Automatic PADS4 Software updates	After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app will automatically update to the version available on the PADS4 Server.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	

<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input checked="" type="checkbox"/>	Turn off display	Turn off display when no presentation scheduled. Device still active but backlight is turned off for less power consumption										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table> <tr> <td>Maximum number of videos</td> <td>2 videos on each page. Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>In landscape mode only</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	2 videos on each page. Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	In landscape mode only	Reflection, skew, flip	Not supported	Streaming	HTTP
Maximum number of videos	2 videos on each page. Check out the supplier documentation for more info											
Video rotation	Not supported											
Seamless videos	In landscape mode only											
Reflection, skew, flip	Not supported											
Streaming	HTTP											
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										
<input checked="" type="checkbox"/>	Line element	Supported										
<input checked="" type="checkbox"/>	Shape element	Supported										
<input checked="" type="checkbox"/>	Scrolling text element	Supported										
<input checked="" type="checkbox"/>	Formatted text element	Supported										
	Flash element	Not supported										
<input checked="" type="checkbox"/>	Table element	Supported										
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported										
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported										



	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations																		
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																		
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																		
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources																		
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																		
<input checked="" type="checkbox"/>	Presentation rules	Supported																		
<input checked="" type="checkbox"/>	Page rules	Supported																		
<input checked="" type="checkbox"/>	Element rules	Supported																		
	<b>Device Management</b>	Device management which can be performed from a remote location																		
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Reboot device</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Shutdown device</td> </tr> <tr> <td>Wake On Lan</td> <td>Remotely start device</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Reboot device	Restart Viewer	Restart PADS4 Viewer	Shutdown	Shutdown device	Wake On Lan	Remotely start device	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings
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Screenshot	Retrieve screenshots for what is actually displayed																			
Logs	Viewer log, synchronization log, system info																			
Viewer Settings	Edit Viewer Settings																			

		Fonts	Install Fonts on device
		Proof of play	Show Proof of play information
		Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution
Block remote control, turn off display, shutdown command and other native command on Philips device are not working.	Make sure sicmp over network is enabled and hosted on port 5000.
When the viewer is starting, the browser is not running full screen.	Check your firmware version, probably an incompatible version of the firmware is installed.
Device fails to connect to the network over Ethernet.	Updating the firmware might solve this problem.
The navigation bar is visible on the device.	Updating the firmware should solve this problem.
Every time the viewer starts, it asks for the permission to permanently store content on the device.	Check your firmware version, probably an

	incompatible version of the firmware is installed.
Device not starting on WOL command.	Check if the WOL is enabled on the device and that a power save mode is selected, that allows WOL.
Used valid certificate is not accepted by the PADS4Philips app.	Check if the date and time are configured correctly on the device.



## PADS4 Installation Manual

### PADS4 Viewer on Philips Multi-Touch series (10BDL3051T)

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  - 1.2. [Resetting the device](#)
- 2. [Installing PADS4 Viewer](#)
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  - 2.4. [Configuring the device for PADS4Philips](#)

- 2.4.1. [Validate Date Time configuration](#)
- 2.4.2. [Optional: Enable TeamViewer](#)
- 2.5. [Connecting to PADS4 Server](#)
- 2.6. [Adjust PADS4 Viewer settings using the options screen](#)
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- 3. [Supported features & limitations](#)
- 4. [Troubleshooting](#)

## 1. First time use

During the installation, you will need to configure the PADS4 Server location. Best approach is to complete the installation of the PADS4 Server first, before continuing the configuration of the device.

**The minimum PADS4 Server version required for the PADS4Philips app is version PADS4 Foundation 2020.3.**

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Step	Description
01	In the Welcome screen select your preferred language and click start.
02	On the Security Setting screen, make sure that 'SICP Network Port' is enabled. Optionally you can enable or disable the other settings. Press next to continue.
03	On the Signage Display Settings screen, press the skip button.
04	On the Network Setting screen, select your preferred network type, press next and configure this accordingly.
05	On the Clone Media Files screen, also press the skip button.
06	Setup Complete press the finish button.

The device will show the Philips Media Player app.

## 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Enter the android menu by pressing in sequence the home button and the volume button behind the display.
02	Enter the password, the default password is 1234
03	Open the settings.
04	Select System Tools -> Factory Reset.
05	Click on Factory Reset and confirm by pressing OK.

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer

To install the PADS4 Viewer on the Philips display, you first need to **get in the android menu of this device**. To open the android menu, press in sequence the home button and the volume down button behind the display. Then it will ask for the admin password, **the default password is 1234**.

### 2.1. Checking device firmware

To run the PADS4 viewer properly on the 10BDL3051T and make sure that all functionality works, you need to have firmware version FB04.06T4\_chrom74.007 installed on the 10BDL3051T. Please check using the following steps.

Step	Description
01	Enter the android menu by pressing home and volume down button in sequence.
02	Specify the admin password (default: 1234).
03	Open the settings.
04	Select about.
05	The build number should match FB04.06T4_chrom74.007

### 2.2. Updating device firmware

To update the firmware please follow the instructions in the document provided by Philips:  
[https://www.dropbox.com/s/qlbprc1m423cn87/10inches\\_Update\\_FB04.06T4.docx?dl=0](https://www.dropbox.com/s/qlbprc1m423cn87/10inches_Update_FB04.06T4.docx?dl=0)

### 2.3. Install PADS4Philips from USB stick

The PADS4Philips.apk can be found on the PADS4 Server in the apps folder of the PADS4 installation directory. The default PADS4 installation directory is 'C:\Program Files\Net Display Systems\PADS4'.

You can also download the latest version of PADS4Philips from <http://go.pads4.com/?fwlink=1006>.

**If you download the latest version, make sure that you will also place it in the apps directory on the PADS4 Server, because if the server is containing a different version, it will install that version of the PADS4Philips app, once connected to the PADS4 Server.**

Step	Description
01	Copy the PADS4Philips.apk on a USB stick.
02	Insert the USB stick into the device.
03	Enter the android menu by pressing home and volume down button in sequence.
04	Specify the admin password (default: 1234).
05	Select Apps and open the File Manager app.
06	Open folders mnt -> usb_storage.
07	Open the folder of the USB port with the USB stick and open the PADS4Philips.apk.
08	Select install and after installation open the app.

### 2.4. Configuring the device for PADS4Philips

Next we are going to change the device setting to make sure it automatically start the PADS4 Viewer on device startup.

Step	Description
01	In the PADS4Philips app open Android settings by clicking on System Settings.
02	Select Signage Display -> Source settings -> Custom app.
03	Click Select App, then select PADS4Philips and press save.
04	Enable force restart custom app.
05	Press back to view the Signage Display settings again.
06	Now select General setting -> Boot on source.
07	Select input custom app and press back until you see the PADS4Philips app again

#### 2.4.1. Validate Date Time configuration

Validate if the date and time are setup correctly on the device, otherwise it is possible that you will get certificate errors or other connection issues.

Step	Description
01	In the PADS4Philips app open Android settings by clicking on System Settings.

02	Go to date & time Menu.
03	Configure the date & time correctly and if the network allows it you can enable auto sync date and time.
04	Go back to the PADS4Philips app.

### 2.4.2. Optional: Enable TeamViewer

If you have a TeamViewer account, you can connect your Philips device to TeamViewer to manage the device remotely.

Step	Description
01	Enter the android menu by pressing home button and volume down button in sequence.
02	Specify the admin password (default: 1234).
03	Select Settings and go to Signage Display -> Other.
04	Enable TeamViewer Support, if not already enabled.
05	Go back to the android menu.
06	Select Apps and open the Host app. (TeamViewer Host)
07	Specify your TeamViewer account, click assign device.
08	Follow the instructions from the email that you will receive from TeamViewer.
09	Click on assign again.
10	Go back to the PADS4Philips App.

### 2.5. Connecting to PADS4 Server

Now the device is ready to run the PADS4 Viewer and we only need to connect to the PADS4 Server. To do this, you only need to specify the PADS4 Server Address and press the start button. The PADS4 Server Address format looks like this:

<protocol>://<host>:<port>/<hostpath>/

- Protocol: should either be http or https, depending if you are hosting with a valid public signed ssl certificate
- Host: DNS name or ip address of the PADS4 Server
- Port: is optional, if the PADS4 server not using the default ports for http or https, you should specify the port number.
- The configured hostpath in system management, the default value is PADS4.

Example: http://localhost/pads4

Connecting to the PADS4 Server:

Step	Description
------	-------------

01	Specify the correct PADS4 Server Location.
02	Optionally specify a viewer name, if not specified the PADS4 Server will generate one.
03	Press the start button.
04	Allow PADS4Philips to have access to the device storage.
05	Wait until the viewer download is finished, then the viewer will start.
06	The first time it will ask for the permission to permanently store content on the device, grant this permission.

Now the viewer should start and connect to the PADS4 Server. After that, you can configure the other settings like screen orientation or block remote control with the PADS4 Agent or in the Viewer Settings.

## 2.6. Adjust PADS4 Viewer settings using the options screen

You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds. In the options screen you can also return to the PADS4Philips app by pressing the Launcher Settings button.


## 2.7. Updating PADS4 Viewer and PADS4Philips app

After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app will automatically update to the version available on the PADS4 Server.

## 2.8. Accessing Android menu when PADS4 Viewer is running

If you open the Android menu by pressing the home button and volume down button in sequence, when the PADS4 Viewer is running, it will probably restart the device in about 30 seconds. This is because the viewer monitor service detects that the viewer is no longer running and because of this the device will reboot. To access the menu properly, you first need to open the PADS4Philips App as described in '2.6 Adjust PADS4 Viewer settings using the options screen'. Then you can access the android menu without the device rebooting, using the home button and volume down button in sequence.





## 3. Supported features and limitations 10BDL3051T

Support	Category	Description
	Automatic PADS4 Software updates	After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app



		will automatically update to the version available on the PADS4 Server.										
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.										
	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input checked="" type="checkbox"/>	Turn off display	Turn off display when no presentation scheduled. Device still active but backlight is turned off for less power consumption										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>1 video on each page. Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>In landscape mode only</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	1 video on each page. Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	In landscape mode only	Reflection, skew, flip	Not supported	Streaming	HTTP
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Video rotation	Not supported											
Seamless videos	In landscape mode only											
Reflection, skew, flip	Not supported											
Streaming	HTTP											
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										
<input checked="" type="checkbox"/>	Line element	Supported										
<input checked="" type="checkbox"/>	Shape element	Supported										
<input checked="" type="checkbox"/>	Scrolling text element	Supported										

<input checked="" type="checkbox"/>	Formatted text element	Supported				
	Flash element	Not supported				
<input checked="" type="checkbox"/>	Table element	Supported				
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported				
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported				
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations				
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose				
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.				
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources				
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically				
<input checked="" type="checkbox"/>	Presentation rules	Supported				
<input checked="" type="checkbox"/>	Page rules	Supported				
<input checked="" type="checkbox"/>	Element rules	Supported				
	<b>Device Management</b>	Device management which can be performed from a remote location				
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device
Connection state	Device connection state information					
Alerts	Automatically send out alerts when network failures occur for this device					

		Reboot Restart Viewer Shutdown Wake On Lan Screenshot Logs Viewer Settings Fonts Proof of play Blackbox	Reboot device Restart PADS4 Viewer Not supported Not supported Retrieve screenshots for what is actually displayed Viewer log, synchronization log, system info Edit Viewer Settings Install Fonts on device Show Proof of play information If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution
Block remote control, turn off display, shutdown command and other native command on Philips device are not working.	Make sure sicmp over network is enabled and hosted on port 5000.
When the viewer is starting, the browser is not running full screen.	Check your firmware version, probably an incompatible ver-

	sion of the firmware is installed.
Device fails to connect to the network over Ethernet.	Updating the firmware might solve this problem.
The navigation bar is visible on the device.	Updating the firmware should solve this problem.
Every time the viewer starts, it asks for the permission to permanently store content on the device.	Check your firmware version, probably an incompatible version of the firmware is installed.



## PADS4 Installation Manual

### PADS4 Viewer on Philips Multi-Touch series (24BDL4151T)

#### Contents

1. [First time use](#)
  - 1.1. [Configuring the device](#)
  - 1.2. [Resetting the device](#)
2. [Installing PADS4 Viewer](#)
  - 2.1. [Checking device firmware](#)
  - 2.2. [Updating device firmware](#)
  - 2.3. [Install PADS4Philips from USB stick](#)
  - 2.4. [Configuring the device for PADS4Philips](#)

- 2.4.1 [Validate Date Time configuration](#)
- 2.4.2. [Optional: Enable TeamViewer](#)
- 2.5. [Connecting to PADS4 Server](#)
- 2.6. [Adjust PADS4 Viewer settings using the options screen](#)
- 2.7. [Updating PADS4 Viewer and PADS4Philips app](#)
- 2.8. [Accessing Android menu when PADS4 Viewer is running](#)
- 3. [Supported features & limitations](#)
- 4. [Troubleshooting](#)

## 1. First time use

During the installation, you will need to configure the PADS4 Server location. Best approach is to complete the installation of the PADS4 Server first, before continuing the configuration of the device.

**The minimum PADS4 Server version required for the PADS4Philips app is version PADS4 Foundation 2020.3.**

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Step	Description
01	In the Welcome screen select your preferred language and click start.
02	On the Security Setting screen, make sure that 'SICP Network Port' is enabled. Optionally you can enable or disable the other settings. Press next to continue.
03	On the Signage Display Settings screen, press the skip button.
04	On the Network Setting screen, select your preferred network type, press next and configure this accordingly.
05	On the Clone Media Files screen, also press the skip button.
06	Setup Complete press the finish button.

The device will show the Philips Media Player app.

## 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Enter the android menu by pressing in sequence the home button and the volume button behind the display.
02	Enter the password, the default password is 1234
03	Open the settings.
04	Select Signage Display -> System Tools -> Factory Reset.
05	Click on Factory Reset and confirm by pressing OK.

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer

To install the PADS4 Viewer on the Philips display, you first need to **get in the android menu of this device**. To open the android menu, press in sequence the home button and the volume down button behind the display. Then it will ask for the admin password, **the default password is 1234**.

### 2.1. Checking device firmware

To run the PADS4 viewer properly on the 24BDL4151T and make sure that all functionality works, you need to have firmware version FB04.04 installed on the 24BDL4151T. Please check using the following steps.

Step	Description
01	Enter the android menu by pressing home and volume down button in sequence.
02	Specify the admin password (default: 1234).
03	Open the settings.
04	Select about.
05	The build number should match FB04.4

### 2.2. Updating device firmware

To update the firmware please follow the instructions in the document provided by Philips:

<https://www.dropbox.com/s/55frshq5063qryt/24BDL4151T%20firmware%20%20FB04.04%20%26%201.010.docx?dl=0>

### 2.3. Install PADS4Philips from USB stick

The PADS4Philips.apk can be found on the PADS4 Server in the apps folder of the PADS4 installation directory. The default PADS4 installation directory is 'C:\Program Files\Net Display Systems\PADS4'.

You can also download the latest version of PADS4Philips from <http://go.pads4.com/?fwlink=1006>.

**If you download the latest version, make sure that you will also place it in the apps directory on the PADS4 Server, because if the server is containing a different version, it will install that version of the PADS4Philips app, once connected to the PADS4 Server.**

Step	Description
01	Copy the PADS4Philips.apk on a USB stick.
02	Insert the USB stick into the device.
03	Enter the android menu by pressing home and volume down button in sequence.
04	Specify the admin password (default: 1234).
05	Select Storage -> your USB drive and open the PADS4Philips.apk.
06	Select install and after installation open the app.

### 2.4. Configuring the device for PADS4Philips

Next we are going to change the device setting to make sure it automatically start the PADS4 Viewer on device startup.

Step	Description
01	In the PADS4Philips app open Android settings by clicking on System Settings.
02	Select Signage Display -> Source settings -> Custom app.
03	Click Select App, then select PADS4Philips and press save.
04	Enable force restart custom app.
05	Press 2x back until you reached Signage Display again.
06	Now select General setting -> Boot on source.
07	Select input custom app and press back.
08	Until you reach the PADS4Philips app.

#### 2.4.1. Validate Date Time configuration

Validate if the date and time are setup correctly on the device, otherwise it is possible that you will get certificate errors or other connection issues.

Step	Description
01	In the PADS4Philips app open Android settings by clicking on System Settings.
02	Go to date & time Menu.

03	Configure the date & time correctly and if the network allows it you can enable auto sync date and time.
04	Go back to the PADS4Philips app.

### 2.4.1. Optional: Enable TeamViewer

If you have a TeamViewer account, you can connect your Philips device to TeamViewer to manage the device remotely.

Step	Description
01	Enter the android menu by pressing home button and volume down button in sequence.
02	Specify the admin password (default: 1234).
03	Select Settings and go to Signage Display -> Misc.
04	Enable TeamViewer Support, if not already enabled.
05	Go back to the android menu.
06	Select Apps and open the Host app. (TeamViewer Host)
07	Specify your TeamViewer account, click assign device.
08	Follow the instructions from the email that you will receive from TeamViewer.
09	Click on assign again.
10	Go back to the PADS4Philips App.

### 2.5. Connecting to PADS4 Server

Now the device is ready to run the PADS4 Viewer and we only need to connect to the PADS4 Server. To do this, you only need to specify the PADS4 Server Address and press the start button. The PADS4 Server Address format looks like this:

<protocol>://<host>:<port>/<hostpath>/

- Protocol: should either be http or https, depending if you are hosting with a valid public signed ssl certificate
- Host: DNS name or ip address of the PADS4 Server
- Port: is optional, if the PADS4 server not using the default ports for http or https, you should specify the port number.
- The configured hostpath in system management, the default value is PADS4.

Example: http://localhost/pads4

Connecting to the PADS4 Server:

Step	Description
01	Specify the correct PADS4 Server Location.



02	Optionally specify a viewer name, if not specified the PADS4 Server will generate one.
03	Press the start button.
04	Allow PADS4Philips to have access to the device storage.
05	Wait until the viewer download is finished, then the viewer will start.
06	The first time it will ask for the permission to permanently store content on the device, grant this permission.

Now the viewer should start and connect to the PADS4 Server. After that, you can configure the other settings like screen orientation or block remote control with the PADS4 Agent or in the Viewer Settings.

## 2.6. Adjust PADS4 Viewer settings using the options screen

You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds. In the options screen you can also return to the PADS4Philips app by pressing the Launcher Settings button.


## 2.7. Updating PADS4 Viewer and PADS4Philips app

After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app will automatically update to the version available on the PADS4 Server.

## 2.8. Accessing Android menu when PADS4 Viewer is running





If you open the Android menu by pressing the home button and volume down button in sequence, when the PADS4 Viewer is running, it will probably restart the device in about 30 seconds. This is because the viewer monitor service detects that the viewer is no longer running and because of this the device will reboot. To access the menu properly, you first need to open the PADS4Philips App as described in '2.6 Adjust PADS4 Viewer settings using the options screen'. Then you can access the android menu without the device rebooting, using the home button and volume down button in sequence.

## 3. Supported features and limitations 24BDL4151T

Support	Category	Description
	Automatic PADS4 Software updates	After the initial installation of the PADS4 Viewer and PADS4Philips app, if you update the PADS4 Server the PADS4 Viewer and PADS4Philips app will automatically update to the version available

		on the PADS4 Server.										
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.										
	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input checked="" type="checkbox"/>	Turn off display	Turn off display when no presentation scheduled. Device still active but backlight is turned off for less power consumption										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>4 videos on each page. Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>In landscape mode only</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	4 videos on each page. Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	In landscape mode only	Reflection, skew, flip	Not supported	Streaming	HTTP
Maximum number of videos	4 videos on each page. Check out the supplier documentation for more info											
Video rotation	Not supported											
Seamless videos	In landscape mode only											
Reflection, skew, flip	Not supported											
Streaming	HTTP											
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										
<input checked="" type="checkbox"/>	Line element	Supported										
<input checked="" type="checkbox"/>	Shape element	Supported										
<input checked="" type="checkbox"/>	Scrolling text element	Supported										
<input checked="" type="checkbox"/>	Formatted text element	Supported										

	Flash element	Not supported						
<input checked="" type="checkbox"/>	Table element	Supported						
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported						
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported						
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations						
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose						
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.						
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources						
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically						
<input checked="" type="checkbox"/>	Presentation rules	Supported						
<input checked="" type="checkbox"/>	Page rules	Supported						
<input checked="" type="checkbox"/>	Element rules	Supported						
	<b>Device Management</b>	Device management which can be performed from a remote location						
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Reboot device</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Reboot device
Connection state	Device connection state information							
Alerts	Automatically send out alerts when network failures occur for this device							
Reboot	Reboot device							

		Restart Viewer	Restart PADS4 Viewer Not supported
		Shutdown	The default 'Switch on state' option on the 24BDL4151T is Force On. Therefore, when the device is turned off, a couple of seconds later, it will turn on again.
		Wake On Lan	Not supported
		Screenshot	Retrieve screenshots for what is actually displayed
		Logs	Viewer log, synchronization log, system info
		Viewer Settings	Edit Viewer Settings
		Fonts	Install Fonts on device
		Proof of play	Show Proof of play information
		Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution
Block remote control, turn off display, shutdown command and other native command on Philips device are not working.	Make sure sicmp over network is enabled and hosted on port

	5000.
When the viewer is starting, the browser is not running full screen.	Check your firmware version, probably an incompatible version of the firmware is installed.
Device fails to connect to the network over Ethernet.	Updating the firmware might solve this problem.
The navigation bar is visible on the device.	Updating the firmware should solve this problem.
Every time the viewer starts, it asks for the permission to permanently store content on the device.	Check your firmware version, probably an incompatible version of the firmware is installed.



## Certified Viewer devices

This section shows the certified Viewer devices from ProDVX.



## PADS4 Installation Manual



# Configuring ProDVX DSK/DSQ Series

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will automatically show the configuration wizard. Follow the steps and specify settings.

## Configuring the device for PADS4 HTML5 Launcher

By default, the network settings are disabled on the device. Also because it is a touch device you want to disable the system status bar, so you cannot close the viewer app. To configure these settings.

- Open the settings on Android
- Make sure that either Wi fi and/or Ethernet is enabled
- To disable the status bar, select Display and check the hide status bar option
- To disable the physical button on the device, select Physical Button Manager and uncheck the Enable Physical Buttons option

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

### Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### Upgrading PADS4 Launcher from USB stick

When a new PADS4 Launcher is available follow the next steps to upgrade.

Step Step Description

- 1 Store the new PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 Open the PADS4 Viewer settings
- 4 Select Launcher settings from the menu
- 5 Click on the folder icon in the right bottom corner
- 6 Navigate to the newer apk on the usb stick, by selecting the storage folder and then the usb\_storage folder
- 7 Select the apk
- 8 The message "Do you want to install an update to this existing application" is displayed.
- 9 Press the install button. The PADS4 HTML5 Launcher should automatically start when installed.

### Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.












**To perform a factory reset of the device follow the next steps:**









Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- Select Reset tablet
- Select Erase everything

**Supported features and limitations**

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
	Portrait mode	Supported. Device will adjust the rotation automatically.
	Block remote control	Option to prevent usage of remote control to operate the screen
	Transfer protocols	HTTP, HTTPS
	Turn off display	Not supported
	Cluster Viewer	This device is able to be used as Cluster Viewer
	LED Light bar	Supported. RG color spectrum only. Blue is not supported The alpha color defines the brightness of the color. The RGB values specify the color. Alpha value of 0: the light is off. Alpha value of 255: the light is at its brightest value.
	<b>Elements</b>	
	Video element	Maximum number of videos 2 HD videos (maximum 60fps) Check out the sup-

		<p>Video rotation</p> <p>Seamless videos</p> <p>Reflection, skew, flip</p> <p>Streaming</p>	<p>plier doc- umentation for more info</p> <p>Not supported</p> <p>Not supported</p> <p>Not supported</p> <p>HTTP</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF	
<input checked="" type="checkbox"/>	Text element	Supported	
<input checked="" type="checkbox"/>	Line element	Supported	
<input checked="" type="checkbox"/>	Shape element	Supported	
<input checked="" type="checkbox"/>	Scrolling text element	Supported	
<input checked="" type="checkbox"/>	Formatted text element	Supported	
	Flash element	Not supported	
<input checked="" type="checkbox"/>	Table element	Supported	
<input checked="" type="checkbox"/>	Interactive button element	Not Supported	
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported	
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations	
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose	
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.	
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources	
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically	

	Presentation rules	Supported
	Page rules	Supported
	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed from a remote location
	Remote device management Web based and Windows	<p>Connection state      Device connection state information</p> <p>Alerts                      Automatically send out alerts when network failures occur for this device</p> <p>Reboot                      Not supported</p> <p>Restart Viewer              Restart PADS4 Viewer</p> <p>Shutdown                      Not supported</p> <p>Wake On Lan                      Not supported</p> <p>Screenshot                      Retrieve screenshots for what is actually displayed</p> <p>Logs                              Viewer log, synchronization log, system info</p> <p>Viewer Settings              Edit Viewer Settings</p> <p>Fonts                              Install Fonts on device</p> <p>Proof of play                      Show Proof of play information</p> <p>Blackbox                              If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be

	removed first.
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## **PADS4 Installation Manual**

# Configuring ProDVX DSK/DSQ Series

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will automatically show the configuration wizard. Follow the steps and specify settings.

## Configuring the device for PADS4 HTML5 Launcher

By default, the network settings are disabled on the device. Also because it is a touch device you want to disable the system status bar, so you cannot close the viewer app. To configure these settings.

- Open the settings on Android
- Make sure that either Wi fi and/or Ethernet is enabled
- To disable the status bar, select Display and check the hide status bar option
- To disable the physical button on the device, select Physical Button Manager and uncheck the Enable Physical Buttons option

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

### Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### **Upgrading PADS4 Launcher from USB stick**

When a new PADS4 Launcher is available follow the next steps to upgrade.

Step Step Description

- 1 Store the new PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 Open the PADS4 Viewer settings
- 4 Select Launcher settings from the menu
- 5 Click on the folder icon in the right bottom corner
- 6 Navigate to the newer apk on the usb stick, by selecting the storage folder and then the usb\_storage folder
- 7 Select the apk
- 8 The message "Do you want to install an update to this existing application" is displayed.
- 9 Press the install button. The PADS4 HTML5 Launcher should automatically start when installed.

### **Adjust PADS4 Viewer options**

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### **Open launcher menu from PADS4 HTML5 Viewer**










- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

**To perform a factory reset of the device follow the next steps:**

Step Description









- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- Select Reset tablet
- Select Erase everything

**Supported features and limitations**

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
	Portrait mode	Supported. Device will adjust the rotation automatically.
	Block remote control	Option to prevent usage of remote control to operate the screen
	Transfer protocols	HTTP, HTTPS
	Turn off display	Not supported
	Cluster Viewer	This device is able to be used as Cluster Viewer
	LED Light bar	Supported. RG color spectrum only. Blue is not supported The alpha color defines the brightness of the color. The RGB values specify the color. Alpha value of 0: the light is off. Alpha value of 255: the light is at its brightest value.
	<b>Elements</b>	
	Video element	Maximum number of videos 2 HD videos (maximum 60fps) Check out the sup-

		<p>Video rotation</p> <p>Seamless videos</p> <p>Reflection, skew, flip</p> <p>Streaming</p>	<p>plier doc- umentation for more info</p> <p>Not supported</p> <p>Not supported</p> <p>Not supported</p> <p>HTTP</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF	
<input checked="" type="checkbox"/>	Text element	Supported	
<input checked="" type="checkbox"/>	Line element	Supported	
<input checked="" type="checkbox"/>	Shape element	Supported	
<input checked="" type="checkbox"/>	Scrolling text element	Supported	
<input checked="" type="checkbox"/>	Formatted text element	Supported	
	Flash element	Not supported	
<input checked="" type="checkbox"/>	Table element	Supported	
<input checked="" type="checkbox"/>	Interactive button element	Not Supported	
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported	
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations	
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose	
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.	
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources	
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically	



	Presentation rules	Supported
	Page rules	Supported
	Element rules	Supported
	<b>Device Management</b>	Device management which can be performed from a remote location
	Remote device management Web based and Windows	<p>Connection state      Device connection state information</p> <p>Alerts                      Automatically send out alerts when network failures occur for this device</p> <p>Reboot                      Not supported</p> <p>Restart Viewer              Restart PADS4 Viewer</p> <p>Shutdown                      Not supported</p> <p>Wake On Lan                      Not supported</p> <p>Screenshot                      Retrieve screenshots for what is actually displayed</p> <p>Logs                              Viewer log, synchronization log, system info</p> <p>Viewer Settings              Edit Viewer Settings</p> <p>Fonts                              Install Fonts on device</p> <p>Proof of play                      Show Proof of play information</p> <p>Blackbox                              If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be

	removed first.
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## **PADS4 Installation Manual**

# Configuring ProDVX ABPC-543 Series

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will automatically show the configuration wizard. Follow the steps and specify settings.

## Configuring the device for PADS4 HTML5 Launcher

By default, the network settings are disabled on the device. Also because it is a touch device you want to disable the system status bar, so you cannot close the viewer app. To configure these settings.

- Open the settings on Android
- Make sure that either Wi fi and/or Ethernet is enabled
- To disable the status bar, select Display and check the hide status bar option
- To disable the physical button on the device, select Physical Button Manager and uncheck the Enable Physical Buttons option

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

### Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### Upgrading PADS4 Launcher from USB stick

When a new PADS4 Launcher is available follow the next steps to upgrade.

Step Step Description

- 1 Store the new PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 Open the PADS4 Viewer settings
- 4 Select Launcher settings from the menu
- 5 Click on the folder icon in the right bottom corner
- 6 Navigate to the newer apk on the usb stick, by selecting the storage folder and then the usb\_storage folder
- 7 Select the apk
- 8 The message "Do you want to install an update to this existing application" is displayed.
- 9 Press the install button. The PADS4 HTML5 Launcher should automatically start when installed.

### Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

**To perform a factory reset of the device follow the next steps:**









Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- Select Reset tablet
- Select Erase everything







**Required firmware**

**PADS4 requires Android 5.1.1 and kernel 3.10 Build LMY49F**

**Supported features and limitations**

Support	Category	Description						
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.						
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.						
	<b>Device</b>							
	Portrait mode	Supported. Device will adjust the rotation automatically.						
	Block remote control	Option to prevent usage of remote control to operate the screen						
	Transfer protocols	HTTP, HTTPS						
	Turn off display	Not supported						
	Cluster Viewer	This device is able to be used as Cluster Viewer						
	<b>Elements</b>							
	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>4 videos</td> </tr> <tr> <td></td> <td>Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> </table>	Maximum number of videos	4 videos		Check out the supplier documentation for more info	Video rotation	Not supported
Maximum number of videos	4 videos							
	Check out the supplier documentation for more info							
Video rotation	Not supported							

		Seamless videos Reflection, skew, flip Streaming	Not supported Not supported HTTP
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF	
<input checked="" type="checkbox"/>	Text element	Supported	
<input checked="" type="checkbox"/>	Line element	Supported	
<input checked="" type="checkbox"/>	Shape element	Supported	
<input checked="" type="checkbox"/>	Scrolling text element	Supported	
<input checked="" type="checkbox"/>	Formatted text element	Supported	
	Flash element	Not supported	
<input checked="" type="checkbox"/>	Table element	Supported	
<input checked="" type="checkbox"/>	Interactive button element	Not Supported	
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported	
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations	
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose	
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.	
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources	
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically	
<input checked="" type="checkbox"/>	Presentation rules	Supported	
<input checked="" type="checkbox"/>	Page rules	Supported	

	Element rules	Supported																								
	<b>Device Management</b>	Device management which can be performed from a remote location																								
	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Not supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Not supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> <tr> <td>Fonts</td> <td>Install Fonts on device</td> </tr> <tr> <td>Proof of play</td> <td>Show Proof of play information</td> </tr> <tr> <td>Blackbox</td> <td>If help from NDS Support is required, the blackbox contains important information for investigation purposes</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Not supported	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Not supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings	Fonts	Install Fonts on device	Proof of play	Show Proof of play information	Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
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Logs	Viewer log, synchronization log, system info																									
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Fonts	Install Fonts on device																									
Proof of play	Show Proof of play information																									
Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes																									
	<b>Remarks</b>																									
	Colors	Texture and pattern colors are not supported																								
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported																								
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5																								
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.																								



## **PADS4 Installation Manual**



# Configuring ProDVX ABPC-545 Series

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will automatically show the configuration wizard. Follow the steps and specify settings.

## Configuring the device for PADS4 HTML5 Launcher

By default, the network settings are disabled on the device. Also because it is a touch device you want to disable the system status bar, so you cannot close the viewer app. To configure these settings.

- Open the settings on Android
- Make sure that either Wi fi and/or Ethernet is enabled
- To disable the status bar, select Display and check the hide status bar option
- To disable the physical button on the device, select Physical Button Manager and uncheck the Enable Physical Buttons option

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an PADS4 Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

Step	Description
01	Start device
02	In the Google search bar on top type in the URL: <a href="http://go.pads4.com/?fwlink=1004">http://go.pads4.com/?fwlink=1004</a>
03	Open with lightning
04	Select download
05	Allow lightning to access photo media and files. Select Allow.
06	Do you want to download this file (select Yes)
07	Click with the left mousebutton on the datetime in the left top corner above the browser tab (notifications)
08	Click on NDS.Droid launcher
09	Click on Settings
10	Enable allow from this source
11	Specify IP Address and portnumber of the PADS4 server
12	Select PADS4 HTML5 Launcher as home app and <b>select Always option</b>
13	Click on Start
14	Click Allow to modify system settings.

15	Press the right mousebutton to return to the settings
16	Click again on Start
17	Click on Allow access to photos, media and file on your device
18	the Viewer will start and connect to the server

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### To perform a factory reset of the device follow the next steps:

Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- Select Reset tablet
- Select Erase everything





### Required firmware

**PADS4 requires version Kernel 4.4.167 Build V-C02001120200598**

## Supported features and limitations

Support	Category	Description										
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.										
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.										
	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input type="checkbox"/>	Turn off display	Not supported										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>4 videos</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table> <p>Check out the supplier documentation for more info</p>	Maximum number of videos	4 videos	Video rotation	Not supported	Seamless videos	Not supported	Reflection, skew, flip	Not supported	Streaming	HTTP
Maximum number of videos	4 videos											
Video rotation	Not supported											
Seamless videos	Not supported											
Reflection, skew, flip	Not supported											
Streaming	HTTP											
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										
<input checked="" type="checkbox"/>	Line element	Supported										
<input checked="" type="checkbox"/>	Shape element	Supported										
<input checked="" type="checkbox"/>	Scrolling text element	Supported										

<input checked="" type="checkbox"/>	Formatted text element	Supported								
	Flash element	Not supported								
<input checked="" type="checkbox"/>	Table element	Supported								
<input checked="" type="checkbox"/>	Interactive button element	Not Supported								
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported								
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations								
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose								
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.								
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources								
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically								
<input checked="" type="checkbox"/>	Presentation rules	Supported								
<input checked="" type="checkbox"/>	Page rules	Supported								
<input checked="" type="checkbox"/>	Element rules	Supported								
	<b>Device Management</b>	Device management which can be performed from a remote location								
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Not supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Not supported	Restart Viewer	Restart PADS4 Viewer
Connection state	Device connection state information									
Alerts	Automatically send out alerts when network failures occur for this device									
Reboot	Not supported									
Restart Viewer	Restart PADS4 Viewer									

		Shutdown	Not supported
		Wake On Lan	Not supported
		Screenshot	Retrieve screenshots for what is actually displayed
		Logs	Viewer log, synchronization log, system info
		Viewer Settings	Edit Viewer Settings
		Fonts	Install Fonts on device
		Proof of play	Show Proof of play information
		Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## PADS4 Installation Manual



# Configuring ProDVX APPC-10SLB Series

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will automatically show the configuration wizard. Follow the steps and specify settings.

## Configuring the device for PADS4 HTML5 Launcher

By default, the network settings are disabled on the device. Also because it is a touch device you want to disable the system status bar, so you cannot close the viewer app. To configure these settings.

- Open the settings on Android
- Make sure that either Wi fi and/or Ethernet is enabled
- To disable the status bar, select Display and check the hide status bar option
- To disable the physical button on the device, select Physical Button Manager and uncheck the Enable Physical Buttons option

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

### Step Step Description

- 1 Store the PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 On the device select the Apk Installer app
- 4 Select install and browse the USB for the apk
- 5 The message "Do you want to install this application" is displayed. Press the next button until the button "install" appears
- 6 Press the install button
- 7 After installation press the open button
- 8 The PADS4 HTML5 Launcher app will be started. Enter the location of the PADS4 Server, by specifying a domain name, IP address or pc name of the server where the PADS4 Server is running.
- 9 (Optional) If you changed the default server html server settings of the PADS server, open the advanced settings and specify the correct port number and host/root path.
- 10 Press start, the first time the app will prompt to select your home app. Select PADS4 HTML5 Launcher and select always, if you don't it will prompt the message again.

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### Upgrading PADS4 Launcher from USB stick

When a new PADS4 Launcher is available follow the next steps to upgrade.

Step Step Description

- 1 Store the new PADS HTML5 Launcher apk on a USB stick
- 2 Insert the USB stick into the device
- 3 Open the PADS4 Viewer settings
- 4 Select Launcher settings from the menu
- 5 Click on the folder icon in the right bottom corner
- 6 Navigate to the newer apk on the usb stick, by selecting the storage folder and then the usb storage folder
- 7 Select the apk
- 8 The message "Do you want to install an update to this existing application" is displayed.
- 9 Press the install button. The PADS4 HTML5 Launcher should automatically start when installed.

### Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
  - Click on the Launcher Settings button
  - Click on the gear icon in right bottom corner
  - The Android settings open
- If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.



## To perform a factory reset of the device follow the next steps:









### Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- Select Reset tablet
- Select Erase everything








## Required firmware


**PADS4 requires version kernel 3.10.0 Build MXC89K**

## Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
	Portrait mode	Supported. Device will adjust the rotation automatically.
	Block remote control	Option to prevent usage of remote control to operate the screen
	Transfer protocols	HTTP, HTTPS
	Turn off display	Not supported
	Cluster Viewer	This device is able to be used as Cluster Viewer
	LED light bar	Supported. Full color spectrum. The alpha color defines the brightness of the color. The RGB values specify the color. Alpha value of 0: the light is off. Alpha value of 255: the light is at its brightest value.

	Elements	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 4 videos Check out the supplier documentation for more info</p> <p>Video rotation Not supported</p> <p>Seamless videos Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming HTTP</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Not Supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources

	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																								
	Presentation rules	Supported																								
	Page rules	Supported																								
	Element rules	Supported																								
	<b>Device Management</b>	Device management which can be performed from a remote location																								
	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Not supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Not supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> <tr> <td>Fonts</td> <td>Install Fonts on device</td> </tr> <tr> <td>Proof of play</td> <td>Show Proof of play information</td> </tr> <tr> <td>Blackbox</td> <td>If help from NDS Support is required, the blackbox contains important information for investigation purposes</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Not supported	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Not supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings	Fonts	Install Fonts on device	Proof of play	Show Proof of play information	Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
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Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes																									
	<b>Remarks</b>																									
	Colors	Texture and pattern colors are not supported																								
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported																								
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5																								

	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.
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## Certified Viewer devices

This section shows the certified Viewer devices from Qbic.



## PADS4 Installation Manual

# Configuring Qbic BXP-321

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

Step	Step Description
1	Click on settings
2	Click on player settings
3	Go to Android system section and enable Switch to Android native mode
4	Go to Android apps
5	Run the internet browser app (for example Lightning or Browser) and type in the URL: <a href="http://go.pads4.com/?fwlink=1004">http://go.pads4.com/?fwlink=1004</a>
6	Click on download
7	Click on allow
8	Wait about 1 minute (loading screen will not disappear when finished downloading)
9	Go to Android apps and click on files - > Downloads
10	Double click on the NDS Android HTML5 Launcher
11	Allow unknown apps to be installed if prompted click on settings - > Allow from this source
12	Click on the back arrow and then click on install in the lower right corner
13	After installing click on open in the lower right corner
14	Type in the location of the PADS4 Server
15	Click on start and select the PADS4 HTML5 Viewer as Home app and select 'Always'
16	Click on Start again
17	Allow to modify system settings
18	Click on the back arrow
19	Click on Allow to access media files
20	You can now start the HTML5 Viewer

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### Upgrading PADS4 Launcher from USB stick

When a new PADS4 Launcher is available follow the next steps to upgrade.

Step Step Description

- 1 Select launcher settings
- 2 Click on the folder icon in the right bottom corner
- 3 Click on Open Link
- 4 Click on the internet browser app (for example Lightning or Browser)
- 5 Select Just once
- 6 Click on download
- 7 Wait about 1 minute (loading screen will not disappear when finished downloading)
- 8 Go to Android apps and click on Files - > Downloads
- 9 Double click on the NDS Android HTML5 Launcher
- 10 The PADS4 HTML5 Viewer forces itself to the foreground so you need to minimize the app with the square in the standard Android menu in the bottom
- 11 It is a little tricky to do this. Best is the drag down the upper Android menu below by holding the left mouse button and then quickly click on the Square
- 12 Allow unknown apps to be installed if prompted click on settings - > Allow from this source
- 13 Click on the back arrow and then click on install in the lower right corner
- 14 After installing click on Open in the lower right corner

### Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
- Click on the Launcher Settings button
- Click on the gear icon in right bottom corner

- The Android settings open  
If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### Disable Android navigation bar

Optionally you can disable the navigation bar of the device, it can be used to change the volume on the device. To disable it, follow the next steps:

- Open the Viewer options
- Click on Launcher Settings
- Click on the gear icon in right bottom corner
- Select System Tools
- Click on Disable in the Navigation Bar section
- The only way to leave the Android setting is to restart the device, by disconnecting the power

### To perform a factory reset of the device follow the next steps:



Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- (Optional) Select Erase SD card
- Select Reset tablet
- Select Erase everything

### Required firmware

**PADS4 requires version kernel kernel 4.4.167 Build v1.0.1**





### Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.

	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input type="checkbox"/>	Turn off display	Not supported										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table> <tr> <td>Maximum number of videos</td> <td>4 videos Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	4 videos Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	Not supported	Reflection, skew, flip	Not supported	Streaming	HTTP
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<input checked="" type="checkbox"/>	Scrolling text element	Supported										
<input checked="" type="checkbox"/>	Formatted text element	Supported										
	Flash element	Not supported										
<input checked="" type="checkbox"/>	Table element	Supported										
<input checked="" type="checkbox"/>	Interactive button element	Not Supported										
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported										
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations										
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval										



		of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																								
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																								
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	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																								
<input checked="" type="checkbox"/>	Presentation rules	Supported																								
<input checked="" type="checkbox"/>	Page rules	Supported																								
<input checked="" type="checkbox"/>	Element rules	Supported																								
	<b>Device Management</b>	Device management which can be performed from a remote location																								
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Proof of play	Show Proof of play information																									
Blackbox	If help from NDS Support is																									

		required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## PADS4 Installation Manual

# Configuring Qbic TD-0350

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

Step	Step Description
1	Click on settings
2	Click on player settings
3	Go to Android system section and enable Switch to Android native mode
4	Go to Android apps
5	Run the internet browser app (for example Lightning or Browser) and type in the URL: <a href="http://go.pads4.com/?fwlink=1004">http://go.pads4.com/?fwlink=1004</a>
6	Click on download
7	Click on allow
8	Wait about 1 minute (loading screen will not disappear when finished downloading)
9	Go to Android apps and click on files - > Downloads
10	Double click on the NDS Android HTML5 Launcher
11	Allow unknown apps to be installed if prompted click on settings - > Allow from this source
12	Click on the back arrow and then click on install in the lower right corner
13	After installing click on open in the lower right corner
14	Type in the location of the PADS4 Server
15	Click on start and select the PADS4 HTML5 Viewer as Home app and select 'Always'
16	Click on Start again
17	Allow to modify system settings
18	Click on the back arrow
19	Click on Allow to access media files
20	You can now start the HTML5 Viewer

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### Upgrading PADS4 Launcher from USB stick

When a new PADS4 Launcher is available follow the next steps to upgrade.

Step Step Description

- 1 Select launcher settings
- 2 Click on the folder icon in the right bottom corner
- 3 Click on Open Link
- 4 Click on the internet browser app (for example Lightning or Browser)
- 5 Select Just once
- 6 Click on download
- 7 Wait about 1 minute (loading screen will not disappear when finished downloading)
- 8 Go to Android apps and click on Files - > Downloads
- 9 Double click on the NDS Android HTML5 Launcher
- 10 The PADS4 HTML5 Viewer forces itself to the foreground so you need to minimize the app with the square in the standard Android menu in the bottom
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- 12 Allow unknown apps to be installed if prompted click on settings - > Allow from this source
- 13 Click on the back arrow and then click on install in the lower right corner
- 14 After installing click on Open in the lower right corner

### Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
- Click on the Launcher Settings button
- Click on the gear icon in right bottom corner

- The Android settings open  
If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### Disable Android navigation bar

Optionally you can disable the navigation bar of the device, it can be used to change the volume on the device. To disable it, follow the next steps:

- Open the Viewer options
- Click on Launcher Settings
- Click on the gear icon in right bottom corner
- Select System Tools
- Click on Disable in the Navigation Bar section
- The only way to leave the Android setting is to restart the device, by disconnecting the power

### To perform a factory reset of the device follow the next steps:



Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- (Optional) Select Erase SD card
- Select Reset tablet
- Select Erase everything

### Required firmware





**PADS4 requires version kernel 3.0.101+ Build v1.1.0**

### Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.

	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input type="checkbox"/>	Turn off display	Not supported										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
<input checked="" type="checkbox"/>	LED light bar	Supported. Full color spectrum.										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>1 video Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	1 video Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	Not supported	Reflection, skew, flip	Not supported	Streaming	HTTP
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<input checked="" type="checkbox"/>	Formatted text element	Supported										
	Flash element	Not supported										
<input checked="" type="checkbox"/>	Table element	Supported										
<input checked="" type="checkbox"/>	Interactive button element	Not Supported										
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported										
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations										

<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																						
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Viewer Settings	Edit Viewer Settings																							
Fonts	Install Fonts on device																							
Proof of play	Show Proof of play information																							

		Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## PADS4 Installation Manual



# Configuring Qbic TD-1050 PRO

This page explains how to configure the SOC player to run the PADS4 HTML5 Viewer.

When you turn the device on for the first time it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below.

## Installation of the PADS4 HTML5 Viewer Android Launcher

PADS4 requires an Android Launcher to be installed.

This launcher can be downloaded from <http://go.pads4.com/?fwlink=1004>.

Step	Step Description
1	Click on settings
2	Click on player settings
3	Go to Android system section and enable Switch to Android native mode
4	Go to Android apps
5	Run the internet browser app (for example Lightning or Browser) and type in the URL: <a href="http://go.pads4.com/?fwlink=1004">http://go.pads4.com/?fwlink=1004</a>
6	Click on download
7	Click on allow
8	Wait about 1 minute (loading screen will not disappear when finished downloading)
9	Go to Android apps and click on files - > Downloads
10	Double click on the NDS Android HTML5 Launcher
11	Allow unknown apps to be installed if prompted click on settings - > Allow from this source
12	Click on the back arrow and then click on install in the lower right corner
13	After installing click on open in the lower right corner
14	Type in the location of the PADS4 Server
15	Click on start and select the PADS4 HTML5 Viewer as Home app and select 'Always'
16	Click on Start again
17	Allow to modify system settings
18	Click on the back arrow
19	Click on Allow to access media files
20	You can now start the HTML5 Viewer

When finished the launcher will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

### Upgrading PADS4 Launcher from USB stick

When a new PADS4 Launcher is available follow the next steps to upgrade.

Step Step Description

- 1 Select launcher settings
- 2 Click on the folder icon in the right bottom corner
- 3 Click on Open Link
- 4 Click on the internet browser app (for example Lightning or Browser)
- 5 Select Just once
- 6 Click on download
- 7 Wait about 1 minute (loading screen will not disappear when finished downloading)
- 8 Go to Android apps and click on Files - > Downloads
- 9 Double click on the NDS Android HTML5 Launcher
- 10 The PADS4 HTML5 Viewer forces itself to the foreground so you need to minimize the app with the square in the standard Android menu in the bottom
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- 13 Click on the back arrow and then click on install in the lower right corner
- 14 After installing click on Open in the lower right corner

### Adjust PADS4 Viewer options

PADS4 Viewer options can be changed directly on the device using a mouse.

Click on the left button of the mouse and hold this down until the menu appears.

It is also possible to change options remotely using PADS4 CTRL Center or PADS4 Agent.

### Open launcher menu from PADS4 HTML5 Viewer

- Open Viewer menu
- Click on the Launcher Settings button
- Click on the gear icon in right bottom corner

- The Android settings open  
If the Hide Status Bar option is turned on, the only way to leave the Android setting is to restart the device, by disconnecting the power.

### Disable Android navigation bar

Optionally you can disable the navigation bar of the device, it can be used to change the volume on the device. To disable it, follow the next steps:

- Open the Viewer options
- Click on Launcher Settings
- Click on the gear icon in right bottom corner
- Select System Tools
- Click on Disable in the Navigation Bar section
- The only way to leave the Android setting is to restart the device, by disconnecting the power

### To perform a factory reset of the device follow the next steps:



Step Description

- Open the settings on Android
- Select Backup & Reset
- Select Factory data reset
- (Optional) Select Erase SD card
- Select Reset tablet
- Select Erase everything

### Required firmware





**PADS4 requires version kernel kernel 4.4.103 Build v1.0.1**

### Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.

	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Supported. Device will adjust the rotation automatically.										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input type="checkbox"/>	Turn off display	Not supported										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
<input checked="" type="checkbox"/>	LED light bar	Supported. Full color spectrum.										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>4 videos Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>Not supported</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP</td> </tr> </table>	Maximum number of videos	4 videos Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	Not supported	Reflection, skew, flip	Not supported	Streaming	HTTP
Maximum number of videos	4 videos Check out the supplier documentation for more info											
Video rotation	Not supported											
Seamless videos	Not supported											
Reflection, skew, flip	Not supported											
Streaming	HTTP											
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF										
<input checked="" type="checkbox"/>	Text element	Supported										
<input checked="" type="checkbox"/>	Line element	Supported										
<input checked="" type="checkbox"/>	Shape element	Supported										
<input checked="" type="checkbox"/>	Scrolling text element	Supported										
<input checked="" type="checkbox"/>	Formatted text element	Supported										
	Flash element	Not supported										
<input checked="" type="checkbox"/>	Table element	Supported										
<input checked="" type="checkbox"/>	Interactive button element	Not Supported										
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported										
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations										

<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																						
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																						
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources																						
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																						
<input checked="" type="checkbox"/>	Presentation rules	Supported																						
<input checked="" type="checkbox"/>	Page rules	Supported																						
<input checked="" type="checkbox"/>	Element rules	Supported																						
	<b>Device Management</b>	Device management which can be performed from a remote location																						
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Not supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Not supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> <tr> <td>Fonts</td> <td>Install Fonts on device</td> </tr> <tr> <td>Proof of play</td> <td>Show Proof of play information</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Not supported	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Not supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings	Fonts	Install Fonts on device	Proof of play	Show Proof of play information
Connection state	Device connection state information																							
Alerts	Automatically send out alerts when network failures occur for this device																							
Reboot	Not supported																							
Restart Viewer	Restart PADS4 Viewer																							
Shutdown	Not supported																							
Wake On Lan	Not supported																							
Screenshot	Retrieve screenshots for what is actually displayed																							
Logs	Viewer log, synchronization log, system info																							
Viewer Settings	Edit Viewer Settings																							
Fonts	Install Fonts on device																							
Proof of play	Show Proof of play information																							

		Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.



## Certified Viewer devices

This section shows the certified Viewer devices from Samsung.



# PADS4 Installation Manual

## Viewer on Samsung SSP2

### Contents

1. [First time use](#)
  - 1.1. [Configuring the device](#)
  - 1.2. [Resetting the device](#)
2. [Installing PADS4 Viewer](#)
  - 2.1. [Checking device firmware](#)
  - 2.2. [Updating firmware](#)
  - 2.3. [Adjust PADS4 Viewer settings using the options screen](#)
3. [Supported features and limitations](#)
4. [Troubleshooting](#)

### 1. First time use

This document is related to the SSSP2 .

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

#### 1.1. Configuring the device

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

## 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Turn the screen off
02	Press on the remote control: <button>Mute + 1 + 8 + 2 + <button>ON
03	Select option => Factory reset => factory reset

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer

Step	Description
01	Select language and press Next
02	Display Orientation. Select Landscape
03	Auto power off. Select off
04	Network settings. Connect to your network
05	Clock set. Configure current date and time
06	Play via. Select URL Launcher. Specify PADS4 Server url <b>Hosting PADS4 on HTTP (default)</b> http://<server>/pads4/native/samsung https://<server>/pads4/native/samsung (second option, secured using https) where <server> is the IP address or domain name of your PADS4 Server.
07	Setup complete. Select OK
08	In Home menu select URL launcher

If the wizard does not show up on startup, change the input to HDMI, next press the menu button on the remote control and select Setup under System menu (Default pin is 0000).

When finished the device will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.



## 2.1. Checking device firmware

To run the PADS4 viewer properly on the SSSP2 and make sure that all functionality works, you need to have firmware version as mentioned in step 4 installed on the device. Please check using the following steps.

Step	Description
01	Power on the screen and press the Home button on the remote control
02	Select more options
03	Select support
04	Select Contact Samsung Software version shows the version number installed. <b>Version 1032.7 is required by PADS4 (version 1018 for DB10D)</b>

## 2.2 Updating firmware

Step	Description
01	Insert the USB Stick into the device
02	Press menu button
03	Select support
04	Select Software update
05	Select Update now and follow the instructions

## 2.3. Adjust PADS4 Viewer settings using the options screen







You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds.

## 3. Supported features and limitations

Support	Category	Description
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is

		cached local.  If the device does not have power for more than 72 hours, the internal clock will reset back to default factory date time. When this device is started again and there is no network connection to the PADS4 Server, you schedules may not be visible due to the factory date time.
	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported. Set the PADS4 rotation option to 270 degrees in the Viewer settings to set the screen in portrait mode. Do NOT use the screen SSP rotate option
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 1 video on each page. Check out the supplier documentation for more info</p> <p>Video rotation Not supported Only 16:9 aspect ratio videos are fully supported.</p> <p>Video size 4:3 (or other aspect ratio's) videos have a lower calculated height</p> <p>Topmost position Video is always on top</p> <p>Seamless videos Not supported</p> <p>Reflection, skew, flip Not supported</p>

		Streaming	HTTP
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF	
<input checked="" type="checkbox"/>	Text element	Supported	
<input checked="" type="checkbox"/>	Line element	Supported	
<input checked="" type="checkbox"/>	Shape element	Supported	
<input checked="" type="checkbox"/>	Scrolling text element	Supported	
<input checked="" type="checkbox"/>	Formatted text element	Supported	
	Flash element	Not supported	
<input checked="" type="checkbox"/>	Table element	Supported	
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported	
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported	
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations	
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose	
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.	
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources	
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically	
<input checked="" type="checkbox"/>	Presentation rules	Supported	
<input checked="" type="checkbox"/>	Page rules	Supported	

	Element rules	Supported																								
	<b>Device Management</b>	Device management which can be performed from a remote location																								
	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Not supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> <tr> <td>Fonts</td> <td>Install Fonts on device</td> </tr> <tr> <td>Proof of play</td> <td>Show Proof of play information</td> </tr> <tr> <td>Blackbox</td> <td>If help from NDS Support is required, the blackbox contains important information for investigation purposes</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Supported	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Not supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings	Fonts	Install Fonts on device	Proof of play	Show Proof of play information	Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
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	Colors	Texture and pattern colors are not supported																								
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported																								
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5																								
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.																								

## 4. Troubleshooting

Problem	Solution



## PADS4 Installation Manual

### Viewer on Samsung SSP3 (E serie)

#### Contents

- 1. First time use
  - 1.1. Configuring the device
  - 1.2. Resetting the device
- 2. Installing PADS4 Viewer
  - 2.1. Checking device firmware
  - 2.2. Updating firmware
  - 2.3. Adjust PADS4 Viewer settings using the options screen
- 3. Supported features & limitations
- 4. Troubleshooting
- Appendix 1

## 1. First time use

This document is related to the SSSP3 .

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

### 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Turn the screen off
02	Press on the remote control: <button>Mute + 1 + 8 + 2 + <button>ON
03	Select option => Factory reset => factory reset

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 2. Installing PADS4 Viewer

Step	Description
01	Select language and press Next
02	Display Orientation. Select Landscape
03	Auto power off. Select off
04	Network settings. Connect to your network
05	Clock set. Configure current date and time
06	Play via. Select URL Launcher. Specify PADS4 Server url <b>Hosting PADS4 on HTTP (default)</b> http://<server>/pads4/native/samsung https://<server>/pads4/native/samsung (second option, secured using https) where <server> is the IP address or domain name of your PADS4 Server.
07	Device name (optional)

08	Setup complete. Select OK
08	In Home menu select URL launcher

If the wizard does not show up on startup, change the input to HDMI, next press the menu button on the remote control and select Setup under System menu (Default pin is 0000).

When finished the device will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## 2.1. Checking device firmware

To run the PADS4 viewer properly on the SSSP3 and make sure that all functionality works, you need to have firmware version as mentioned in step 4 installed on the device. Please check using the following steps.

Step	Description
01	Power on the screen and press the Home button on the remote control
02	Select more options
03	Select support
04	Select Contact Samsung Software version shows the version number installed.  <b>Version 1029 is required by PADS4 (1011 for DB10E)</b>

## 2.2 Updating firmware

Step	Description
01	Insert the USB Stick into the device
02	Press menu button
03	Select support
04	Select Software update
05	Select Update now and follow the instructions

### 2.3. Adjust PADS4 Viewer settings using the options screen







You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds.




### 3. Supported features and limitations

Support	Category	Description										
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	After updating PADS4 Server, This device will automatically update the PADS4 software										
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.										
	<b>Device</b>											
<input checked="" type="checkbox"/>	Portrait mode	Set the PADS4 rotation option to 270 degrees in the Viewer settings to set the screen in portrait mode. Do NOT use the screen SSP rotate option										
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of a remote control to operate the screen										
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS										
<input checked="" type="checkbox"/>	Turn off display	Turn off display when no presentation scheduled. Device still active but backlight is turned off for less power consumption										
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer										
	<b>Elements</b>											
<input checked="" type="checkbox"/>	Video element	<table border="0"> <tr> <td>Maximum number of videos</td> <td>1 video on each page. Check out the supplier documentation for more info</td> </tr> <tr> <td>Video rotation</td> <td>Not supported</td> </tr> <tr> <td>Seamless videos</td> <td>In landscape mode only</td> </tr> <tr> <td>Reflection, skew, flip</td> <td>Not supported</td> </tr> <tr> <td>Streaming</td> <td>HTTP, HLS and</td> </tr> </table>	Maximum number of videos	1 video on each page. Check out the supplier documentation for more info	Video rotation	Not supported	Seamless videos	In landscape mode only	Reflection, skew, flip	Not supported	Streaming	HTTP, HLS and
Maximum number of videos	1 video on each page. Check out the supplier documentation for more info											
Video rotation	Not supported											
Seamless videos	In landscape mode only											
Reflection, skew, flip	Not supported											
Streaming	HTTP, HLS and											



		<p>Lynk DRM</p> <p>Select TV Input channels</p>	<p>RTP(multicast) streaming.</p> <p>Deliver secured, premium HDTV content to Samsung devices. Check appendix 1 for more information about using Lynk DRM</p> <p>Show HDMI &amp; DVI as video input</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF	
<input checked="" type="checkbox"/>	Text element	Supported	
<input checked="" type="checkbox"/>	Line element	Supported	
<input checked="" type="checkbox"/>	Shape element	Supported	
<input checked="" type="checkbox"/>	Scrolling text element	Supported	
<input checked="" type="checkbox"/>	Formatted text element	Supported	
<input checked="" type="checkbox"/>	Flash element	There is no support to detect end of flash presentation when playing. Functions such as play once next page and detect end of presentation are not supported	
<input checked="" type="checkbox"/>	Table element	Supported	
<input checked="" type="checkbox"/>	Interactive button element	Mouse cursor options not supported Interactive Data filter & sort dialog window not supported	
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported	
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources	
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations	
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose	

	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																						
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																						
	Presentation rules	Supported																						
	Page rules	Supported																						
	Element rules	Supported																						
	<b>Device Management</b>	Device management which can be performed from a remote location																						
	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Reboot device</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Wake On Lan</td> <td>WOL</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> <tr> <td>Fonts</td> <td>Install Fonts on device</td> </tr> <tr> <td>Proof of play</td> <td>Show Proof of play information</td> </tr> <tr> <td>Blackbox</td> <td>If help from NDS Support is required, the blackbox contains important information for investigation purposes</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Reboot device	Restart Viewer	Restart PADS4 Viewer	Wake On Lan	WOL	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings	Fonts	Install Fonts on device	Proof of play	Show Proof of play information	Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
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Logs	Viewer log, synchronization log, system info																							
Viewer Settings	Edit Viewer Settings																							
Fonts	Install Fonts on device																							
Proof of play	Show Proof of play information																							
Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes																							
	<b>Remarks</b>																							
	Device Power	If the device does not have power for more than																						

		72 hours, the internal clock will reset back to default factory date time. When this device is started again and there is no network connection to the PADS4 Server, you schedules may not be visible due to the factory date time.
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5

#### 4. Troubleshooting

Problem	Solution

### Appendix 1 Lynk-DRM streaming

The Samsung LYNK Digital Rights Management (DRM) encryption. It enables hospitality service providers and integrators to easily deliver secured, premium HDTV content to Samsung devices.

#### Video streaming on Samsung SSP3

If you are running the HTML5 Viewer on a Samsung SSP3 screen than there is support for video streaming. The protocols that are supported are HTTP, HLS and RTP and also content that is encrypted by Samsung Lynk DRM can be played.

We have tested all three streaming protocols on a DM32E with firmware 1029.7 and a DB10E with firmware 1010.4, the video format of the streams was H.264 mpeg4. Theoretically it should be able to play all video formats that are supported by Samsung.

There is a side note for HLS Streams, if the stream Url doesn't end with the extension .m3u8, then we cannot detect that you want to make use a HLS Stream and it will try to play it as a normal http stream. If this is the case, you need to manually enter the Samsung notation of for playing HLS stream, which is to add '|COMPONENT=HLS' to the end of stream Url. So the Url looks like:  
http://<server>:<port>/<path>|COMPONENT=HLS.

When streaming IPTV through a Samsung SOC player, you can optionally add the HW option to the Url of the stream. Based on the documentation of Samsung this will improve the performance of the stream, for example:

rtp://239.0.0.4:6004|HW

### Playing streams from Lynk DRM

The PADS4 HTML5 Viewer supports streams encrypted by a Samsung Lynk DRM Server. You can use the video/sound element in PADS4 and add a Lynk Url to the playlist. So in the element, select the Video Stream content type and specify the Lynk Url. Something like:

rtp://239.0.0.1:6004|HW|COMPONENT=LYNK|TYPE=1

To play type 2 or 3 Lynk encrypted stream, you need to specify a LynkDRM Server, so for these streams you will need to add the lynk\_server query option to the Lynk Url. Something like:

http://<server>/videofile.mp4|COMPONENT=LYNK|TYPE=2?lynk\_server=lynkserver.local:8080

Please contact Samsung for more information about Lynk DRM.



## PADS4 Installation Manual

### Viewer on Samsung SSP4 (F serie)

#### Contents

1. [First time use](#)
  - 1.1. [Configuring the device](#)
  - 1.2. [Resetting the device](#)
  - 1.3. [Uninstall an app](#)
2. [Installing PADS4 Viewer](#)
  - 2.1. [Checking device firmware](#)
  - 2.2. [Updating firmware](#)

## 2.3. Adjust PADS4 Viewer settings using the options screen

## 3. Supported features & limitations

## 4. Troubleshooting

### 1. First time use

This document is related to the SSSP4.

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

#### 1.1. Configuring the device

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

#### 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Turn the screen off
02	Press on the remote control: <button>Mute + 1 + 8 + 2 + <button>ON
03	Select option => Factory reset => factory reset

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

#### 1.3 Uninstall an app

When you fail to open the device menu by pressing the key combination, it is possible that the installed app blocks this option. Then you need to uninstall the app first before you can open the device menu.

Step	Description
01	Open Home menu
02	Select URL launcher settings

03	Select the uninstall option
04	Confirm to uninstall the app

## 2. Installing PADS4 Viewer

Step	Description
01	Select language and press Next
02	Display Orientation. Select Landscape
03	Auto power off. Select off
04	Network settings. Connect to your network
05	Clock set. Configure current date and time
06	<p>Play via. Select URL Launcher. Specify PADS4 Server url</p> <p><b>Hosting PADS4 on HTTP (default)</b>  http://&lt;server&gt;/PADS4/apps/tizen  https://&lt;server&gt;/PADS4/apps/tizen</p> <p>where &lt;server&gt; is the IP address or domain name of your PADS4 Server.  (second option, secured using https)</p> <p><b>Be aware that PADS4 must be specified in capitals, otherwise Tizen will not be able to connect due to case sensitivity.</b></p> <p>If you are using PADS4 version 2020.1 or earlier please use the old link:  http://&lt;server&gt;/pads4/native/samsung  https://&lt;server&gt;/pads4/native/samsung (second option, secured using https)</p>
07	Device name (optional)
08	Setup complete. Select OK
08	In Home menu select URL launcher

If the wizard does not show up on startup, change the input to HDMI, next press the menu button on the remote control and select Setup under System menu (Default pin is 0000).

When finished the device will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## 2.1. Checking device firmware

To run the PADS4 viewer properly on the SSSP4 and make sure that all functionality works, you need to have firmware as mentioned in step 4 installed on the device. Please check using the following steps.

Step	Description
01	Power on the screen and press the Home button on the remote control
02	Select more options
03	Select support
04	Select Contact Samsung Software version shows the version number installed.  <b>Version 2070.6 is required by PADS4</b> <b>Minimum PADS4 version required is 2020.1</b>

## 2.2 Updating firmware

Step	Description
01	Insert the USB Stick into the device
02	Press menu button
03	Select support
04	Select Software update
05	Select Update now and follow the instructions

## 2.3. Adjust PADS4 Viewer settings using the options screen

You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds.





## 3. Supported features and limitations

Support	Category	Description
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.

	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported. Set the PADS4 rotation option to 270 degrees in the Viewer settings to set the screen in portrait mode. Do NOT use the screen SSP rotate option
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 2 seamless videos on each page. Check out the supplier documentation for more info</p> <p>Video rotation Not supported</p> <p>Seamless videos Supported</p> <p>Maximum framerate 30 fps</p> <p>Playback speed adjustment Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming HTTP, HLS,RTP, UDP Simultaneous playing video from stream and file is not supported.</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported



<input checked="" type="checkbox"/>	Formatted text element	Supported				
	Flash element	Not supported				
<input checked="" type="checkbox"/>	Table element	Supported				
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported				
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported				
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations				
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose				
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.				
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources				
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically				
<input checked="" type="checkbox"/>	Presentation rules	Supported				
<input checked="" type="checkbox"/>	Page rules	Supported				
<input checked="" type="checkbox"/>	Element rules	Supported				
	<b>Device Management</b>	Device management which can be performed from a remote location				
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device
Connection state	Device connection state information					
Alerts	Automatically send out alerts when network failures occur for this device					

		Reboot Supported Restart Viewer Restart PADS4 Viewer Shutdown Not supported Wake On Lan Supported Screenshot Retrieve screenshots for what is actually displayed Logs Viewer log, synchronization log, system info Viewer Settings Edit Viewer Settings Fonts Install Fonts on device Proof of play Show Proof of play information Blackbox If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>	
	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution
Update system to PADS4 2020.2	Viewer will restart twice and update to the new Tizen launcher automatically.



## **PADS4 Installation Manual**

### **Viewer on Samsung SSP5 (H & J serie, Tizen 3)**

#### Contents

1. First time use
  - 1.1. Configuring the device
  - 1.2. Resetting the device
  - 1.3. Uninstall an app
2. Installing PADS4 Viewer
  - 2.1. Checking device firmware
  - 2.2. Updating firmware
  - 2.3. Adjust PADS4 Viewer settings using the options screen
3. Supported features & limitations
4. Troubleshooting

#### **1. First time use**

This document is related to the SSSP5.

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

### 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Turn the screen off
02	Press on the remote control: <button>Mute + 1 + 8 + 2 + <button>ON
03	Select option => Factory reset => factory reset

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

### 1.3 Uninstall an app

When you fail to open the device menu by pressing the key combination, it is possible that the installed app blocks this option. Then you need to uninstall the app first before you can open the device menu.

Step	Description
01	Open Home menu
02	Select URL launcher settings
03	Select the uninstall option
04	Confirm to uninstall the app

## 2. Installing PADS4 Viewer

Step	Description
01	Select language and press Next
02	Display Orientation. Select Landscape
03	Auto power off. Select off

04	Network settings. Connect to your network
05	Clock set. Configure current date and time
06	<p>Play via. Select URL Launcher. Specify PADS4 Server url</p> <p><b>Hosting PADS4 on HTTP (default)</b>  http://&lt;server&gt;/PADS4/apps/tizen  https://&lt;server&gt;/PADS4/apps/tizen</p> <p>where &lt;server&gt; is the IP address or domain name of your PADS4 Server.  (second option, secured using https)</p> <p>Be aware that <b>PADS4</b> must be specified in capitals, otherwise Tizen will not be able to connect due to case sensitivity.</p> <p>If you are using PADS4 version 2020.1 or earlier please use the old link:  http://&lt;server&gt;/pads4/native/samsung  https://&lt;server&gt;/pads4/native/samsung (second option, secured using https)</p>
07	Device name (optional)
08	Setup complete. Select OK
08	In Home menu select URL launcher

If the wizard does not show up on startup, change the input to HDMI, next press the menu button on the remote control and select Setup under System menu (Default pin is 0000).

When finished the device will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## 2.1. Checking device firmware

To run the PADS4 viewer properly on the SSSP5 and make sure that all functionality works, you need to have firmware as mentioned in step 4 installed on the device. Please check using the following steps.

Step	Description
01	Power on the screen and press the Home button on the remote control
02	Select more options
03	Select support

04	Select Contact Samsung Software version shows the version number installed.  <b>Version 2060.7 is required by PADS4</b> <b>Minimum PADS4 version required is 2020.1</b>
----	---

## 2.2 Updating firmware

Step	Description
01	Insert the USB Stick into the device
02	Press menu button
03	Select support
04	Select Software update
05	Select Update now and follow the instructions

## 2.3. Adjust PADS4 Viewer settings using the options screen

You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds.





## 3. Supported features and limitations

Support	Category	Description
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported. Set the PADS4 rotation option to 270 degrees in the Viewer settings to set the screen in portrait mode. Do NOT use the screen SSP rotate option
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen

<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	<p>Maximum number of videos 2 seamless videos on each page. Maximum of one 4K video on each page. Check out the supplier documentation for more info</p> <p>Video rotation Not supported</p> <p>Seamless videos Supported</p> <p>Maximum framerate 30 fps</p> <p>Playback speed adjustment Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming Simultaneous playing video from stream and file is not supported.</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported

		Interactive Data filter & sort dialog window not supported														
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported														
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations														
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose														
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.														
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources														
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically														
<input checked="" type="checkbox"/>	Presentation rules	Supported														
<input checked="" type="checkbox"/>	Page rules	Supported														
<input checked="" type="checkbox"/>	Element rules	Supported														
	<b>Device Management</b>	Device management which can be performed from a remote location														
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Supported	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Supported	Screenshot	Retrieve screenshots for what is actually displayed
Connection state	Device connection state information															
Alerts	Automatically send out alerts when network failures occur for this device															
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Restart Viewer	Restart PADS4 Viewer															
Shutdown	Not supported															
Wake On Lan	Supported															
Screenshot	Retrieve screenshots for what is actually displayed															



		<p>Logs Viewer Settings Fonts Proof of play Blackbox</p>	<p>Viewer log, synchronization log, system info Edit Viewer Settings Install Fonts on device Show Proof of play information If help from NDS Support is required, the blackbox contains important information for investigation purposes</p>
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution
Update system to PADS4 2020.2	Viewer will restart twice and update to the new Tizen launcher automatically.



# PADS4 Installation Manual

## Viewer on Samsung SSP6 (Tizen 4)

### Contents

1. [First time use](#)
  - 1.1. [Configuring the device](#)
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  - 1.3. [Uninstall an app](#)
2. [Installing PADS4 Viewer](#)
  - 2.1. [Checking device firmware](#)
  - 2.2. [Updating firmware](#)
  - 2.3. [Adjust PADS4 Viewer settings using the options screen](#)
3. [Supported features & limitations](#)
4. [Troubleshooting](#)

### 1. First time use

This document is related to the SSSP6.

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

#### 1.1. Configuring the device

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

## 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
01	Turn the screen off
02	Press on the remote control: <button>Mute + 1 + 8 + 2 + <button>ON
03	Select option => Factory reset => factory reset

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

## 1.3 Uninstall an app

When you fail to open the device menu by pressing the key combination, it is possible that the installed app blocks this option. Then you need to uninstall the app first before you can open the device menu.

Step	Description
01	Open Home menu
02	Select URL launcher settings
03	Select the uninstall option
04	Confirm to uninstall the app

## 2. Installing PADS4 Viewer

Step	Description
01	Select language and press Next
02	Display Orientation. Select Landscape
03	Auto power off. Select off
04	Network settings. Connect to your network
05	Clock set. Configure current date and time
06	Play via. Select URL Launcher. Specify PADS4 Server url <b>Hosting PADS4 on HTTP (default)</b> http://<server>/PADS4/apps/tizen https://<server>/PADS4/apps/tizen where <server> is the IP address or domain name of your PADS4 Server. (second option, secured using https)

	<p>Be aware that <b>PADS4</b> must be specified in capitals, otherwise Tizen will not be able to connect due to case sensitivity.</p> <p>If you are using PADS4 version 2020.1 or earlier please use the old link:</p> <p>http://&lt;server&gt;/pads4/native/samsung  https://&lt;server&gt;/pads4/native/samsung (second option, secured using https)</p>
07	Device name (optional)
08	Setup complete. Select OK
08	In Home menu select URL launcher

If the wizard does not show up on startup, change the input to HDMI, next press the menu button on the remote control and select Setup under System menu (Default pin is 0000).

When finished the device will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## 2.1. Checking device firmware

To run the PADS4 viewer properly on the SSSP6 and make sure that all functionality works, you need to have firmware as mentioned in step 4 installed on the device. Please check using the following steps.

Step	Description
01	Power on the screen and press the Home button on the remote control
02	Select more options
03	Select support
04	<p>Select Contact Samsung  Software version shows the version number installed.</p> <p><b>Version 1060.7 is required by PADS4</b>  <b>Minimum PADS4 version required is 2020.1</b></p>

## 2.2 Updating firmware

Step	Description
------	-------------

01	Insert the USB Stick into the device
02	Press menu button
03	Select support
04	Select Software update
05	Select Update now and follow the instructions

### 2.3. Adjust PADS4 Viewer settings using the options screen





You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds.

### 3. Supported features and limitations

Support	Category	Description
<input checked="" type="checkbox"/>	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
<input checked="" type="checkbox"/>	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
<input checked="" type="checkbox"/>	Portrait mode	Supported. Set the PADS4 rotation option to 270 degrees in the Viewer settings to set the screen in portrait mode. Do NOT use the screen SSP rotate option
<input checked="" type="checkbox"/>	Block remote control	Option to prevent usage of remote control to operate the screen
<input checked="" type="checkbox"/>	Transfer protocols	HTTP, HTTPS
<input type="checkbox"/>	Turn off display	Not supported
<input checked="" type="checkbox"/>	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
<input checked="" type="checkbox"/>	Video element	Maximum number of videos 2 seamless videos on each page. Maximum of one 4K video on each

		<p>page. Check out the supplier documentation for more info</p> <p>Possible using portrait mode only</p> <p>Supported in landscape orientation only</p> <p>Maximum framerate 30 fps</p> <p>Playback speed adjustment Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>HTTP, HLS, RTP, UDP</p> <p>Streaming Simultaneous playing video from stream and file is not supported.</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations

<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose																						
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections. It also gives the opportunity to centrally manage the content without changing presentations or data providers.																						
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources																						
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Logs	Viewer log, synchronization log, system info																							
Viewer Settings	Edit Viewer Settings																							
Fonts	Install Fonts on device																							
Proof of play	Show Proof of play information																							

		Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
	<b>Remarks</b>		
	Colors		Texture and pattern colors are not supported
	Transition effects		Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity		PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play		Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution
Update system to PADS4 2020.2	Viewer will restart twice and update to the new Tizen launcher automatically.



## PADS4 Installation Manual



# Viewer on Samsung SSP6 SHF stretch (Tizen 4)

## Contents

- 1. [First time use](#)
- 1.1. [Configuring the device](#)
- 1.2. [Resetting the device](#)
- 1.3. [Uninstall an app](#)
- 2. [Installing PADS4 Viewer](#)
- 2.1. [Checking device firmware](#)
- 2.2. [Updating firmware](#)
- 2.3. [Adjust PADS4 Viewer settings using the options screen](#)
- 3. [Supported features & limitations](#)
- 4. [Troubleshooting](#)

## 1. First time use

This document is related to the SSSP6.

When you turn the device on for the first time, it will open a configuration wizard. Follow the steps and specify the settings, as mentioned below. (If the configuration wizard does not start, then please first factory reset your device, as described in '1.2 resetting the device'.)

### 1.1. Configuring the device

Please read the installing section to setup the Viewer. There are no changes that need to be performed before installing the Viewer.

### 1.2. Resetting the device

If your device was used before, we recommend that you factory reset your device, so that all storage is freed and no other software interferes with the PADS4 Viewer software.

Step	Description
------	-------------

01	Turn the screen off
02	Press on the remote control: <button>Mute + 1 + 8 + 2 + <button>ON
03	Select option => Factory reset => factory reset

The device will factory reset and afterwards you will see the welcome screen, please follow the steps as described in '1.1 configuring the device'.

### 1.3 Uninstall an app

When you fail to open the device menu by pressing the key combination, it is possible that the installed app blocks this option. Then you need to uninstall the app first before you can open the device menu.

Step	Description
01	Open Home menu
02	Select URL launcher settings
03	Select the uninstall option
04	Confirm to uninstall the app

## 2. Installing PADS4 Viewer

Step	Description
01	Select language and press Next
02	Display Orientation. Select Landscape
03	Auto power off. Select off
04	Network settings. Connect to your network
05	Clock set. Configure current date and time
06	<p>Play via. Select URL Launcher. Specify PADS4 Server url</p> <p><b>Hosting PADS4 on HTTP (default)</b>  <a href="http://&lt;server&gt;/PADS4/apps/tizen">http://&lt;server&gt;/PADS4/apps/tizen</a>  <a href="https://&lt;server&gt;/PADS4/apps/tizen">https://&lt;server&gt;/PADS4/apps/tizen</a></p> <p>where &lt;server&gt; is the IP address or domain name of your PADS4 Server.  (second option, secured using https)</p> <p><b>Be aware that PADS4 must be specified in capitals, otherwise Tizen will not be able to connect due to case sensitivity.</b></p> <p>If you are using PADS4 version 2020.1 or earlier please use the old link:  <a href="http://&lt;server&gt;/pads4/native/samsung">http://&lt;server&gt;/pads4/native/samsung</a></p>

	https://<server>/pads4/native/samsung (second option, secured using https)
07	Device name (optional)
08	Setup complete. Select OK
08	In Home menu select URL launcher

If the wizard does not show up on startup, change the input to HDMI, next press the menu button on the remote control and select Setup under System menu (Default pin is 0000).

When finished the device will download the PADS4 HTML5 Viewer software and start. At the left bottom location a connection indicator icon will appear. It will turn green if a valid connection is made to the Server.

If a problem occurs open the viewer settings and have a look at the log which may contain important (error) information.

The first time the device is configured, a valid server connection is required to download the PADS4 HTML5 Viewer software.

## 2.1. Checking device firmware

To run the PADS4 viewer properly on the SSSP6 and make sure that all functionality works, you need to have firmware as mentioned in step 4 installed on the device. Please check using the following steps.

Step	Description
01	Power on the screen and press the Home button on the remote control
02	Select more options
03	Select support
04	Select Contact Samsung Software version shows the version number installed. <b>Version 21.61 is required by PADS4</b> <b>Minimum PADS4 version required is 2020.1</b>









## 2.2 Updating firmware

Step	Description
01	Insert the USB Stick into the device
02	Press menu button
03	Select support
04	Select Software update
05	Select Update now and follow the instructions

### 2.3. Adjust PADS4 Viewer settings using the options screen





You can adjust the PADS4 Viewer settings directly on the display. To enter the options screen on the device itself, hold the left mouse button down or touch the screen for 3 seconds.

### 3. Supported features and limitations

Support	Category	Description
	Automatic PADS4 Software updates	Supported. HTML5 Viewer is automatically updated.
	Offline mode of device	While offline from the network, the device will still continue to play PADS4 presentations and change planned schedules for 7 days. Scheduled presentations, content and data is cached local.
	<b>Device</b>	
	Portrait mode	Supported. Set the PADS4 rotation option to 270 degrees in the Viewer settings to set the screen in portrait mode. Do NOT use the screen SSP rotate option
	Block remote control	Option to prevent usage of remote control to operate the screen
	Transfer protocols	HTTP, HTTPS
	Turn off display	Not supported
	Cluster Viewer	This device is able to be used as Cluster Viewer
	<b>Elements</b>	
	Video element	<p>Maximum number of videos</p> <p>2 seamless videos on each page. Maximum of one 4K video on each page. Check out the supplier documentation for more info</p> <p>Video rotation</p> <p>Possible using portrait mode</p>

		<p>only</p> <p>Supported in landscape orientation only</p> <p>Maximum framerate 30 fps</p> <p>Playback speed adjustment Not supported</p> <p>Reflection, skew, flip Not supported</p> <p>Streaming HTTP, HLS, RTP, UDP</p> <p>Simultaneous playing video from stream and file is not supported.</p>
<input checked="" type="checkbox"/>	Image element	Support for JPG, PNG, BMP, GIF
<input checked="" type="checkbox"/>	Text element	Supported
<input checked="" type="checkbox"/>	Line element	Supported
<input checked="" type="checkbox"/>	Shape element	Supported
<input checked="" type="checkbox"/>	Scrolling text element	Supported
<input checked="" type="checkbox"/>	Formatted text element	Supported
	Flash element	Not supported
<input checked="" type="checkbox"/>	Table element	Supported
<input checked="" type="checkbox"/>	Interactive button element	Supported Mouse cursor options not supported Interactive Data filter & sort dialog window not supported
<input checked="" type="checkbox"/>	Web element	Usage of the interactive Address Bar not supported
	<b>Data connections</b>	Data connections make it possible to show information from external sources inside presentations
<input checked="" type="checkbox"/>	Data providers	More than 70 PADS4 data providers for retrieval of (realtime) data from external sources and the possibility to change and join the data to fit your purpose
<input checked="" type="checkbox"/>	Viewer Variables	Usage of Viewer Variables can simplify your presentations and data connections.

		It also gives the opportunity to centrally manage the content without changing presentations or data providers.																								
<input checked="" type="checkbox"/>	Property bindings	Apply element properties by using external data sources																								
	<b>Rules</b>	Rules will make it possible to interact on certain situations like realtime data and change the behavior of a presentation automatically																								
<input checked="" type="checkbox"/>	Presentation rules	Supported																								
<input checked="" type="checkbox"/>	Page rules	Supported																								
<input checked="" type="checkbox"/>	Element rules	Supported																								
	<b>Device Management</b>	Device management which can be performed from a remote location																								
<input checked="" type="checkbox"/>	Remote device management Web based and Windows	<table border="0"> <tr> <td>Connection state</td> <td>Device connection state information</td> </tr> <tr> <td>Alerts</td> <td>Automatically send out alerts when network failures occur for this device</td> </tr> <tr> <td>Reboot</td> <td>Supported</td> </tr> <tr> <td>Restart Viewer</td> <td>Restart PADS4 Viewer</td> </tr> <tr> <td>Shutdown</td> <td>Not supported</td> </tr> <tr> <td>Wake On Lan</td> <td>Supported</td> </tr> <tr> <td>Screenshot</td> <td>Retrieve screenshots for what is actually displayed</td> </tr> <tr> <td>Logs</td> <td>Viewer log, synchronization log, system info</td> </tr> <tr> <td>Viewer Settings</td> <td>Edit Viewer Settings</td> </tr> <tr> <td>Fonts</td> <td>Install Fonts on device</td> </tr> <tr> <td>Proof of play</td> <td>Show Proof of play information</td> </tr> <tr> <td>Blackbox</td> <td>If help from NDS Support is required, the blackbox contains important information for investigation purposes</td> </tr> </table>	Connection state	Device connection state information	Alerts	Automatically send out alerts when network failures occur for this device	Reboot	Supported	Restart Viewer	Restart PADS4 Viewer	Shutdown	Not supported	Wake On Lan	Supported	Screenshot	Retrieve screenshots for what is actually displayed	Logs	Viewer log, synchronization log, system info	Viewer Settings	Edit Viewer Settings	Fonts	Install Fonts on device	Proof of play	Show Proof of play information	Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes
Connection state	Device connection state information																									
Alerts	Automatically send out alerts when network failures occur for this device																									
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Viewer Settings	Edit Viewer Settings																									
Fonts	Install Fonts on device																									
Proof of play	Show Proof of play information																									
Blackbox	If help from NDS Support is required, the blackbox contains important information for investigation purposes																									
	<b>Remarks</b>																									

	Colors	Texture and pattern colors are not supported
	Transition effects	Horizontal and vertical blinds not supported Splitters, increased circle and sliced circle not supported
	Content file integrity	PADS4 Content Library file integrity is checked during synchronization using MD5
	Proof of play	Local storage limitation of max. 50.000 records on the HTML5 Viewer during offline period. When the 50.000 is hit, the oldest value will be removed first.

#### 4. Troubleshooting

Problem	Solution
Update system to PADS4 2020.2	Viewer will restart twice and update to the new Tizen launcher automatically.



## PADS4 Installation Manual

# How to install PADS4 Windows Client applications

**Important:** This installation applies to a new system to install the latest PADS4 Client 2020.1 build. It is of vital importance that **you do not install the PADS4 Foundation 2020.1 build on a workstation / Viewer PC**. This will corrupt the functionality of your workstation / Viewer PC, as this would result in setting up the configuration as a Server PC.

## Download

Download the PADS4 Client setup software from \*<http://go.pads4.com/?fwlink=1011>

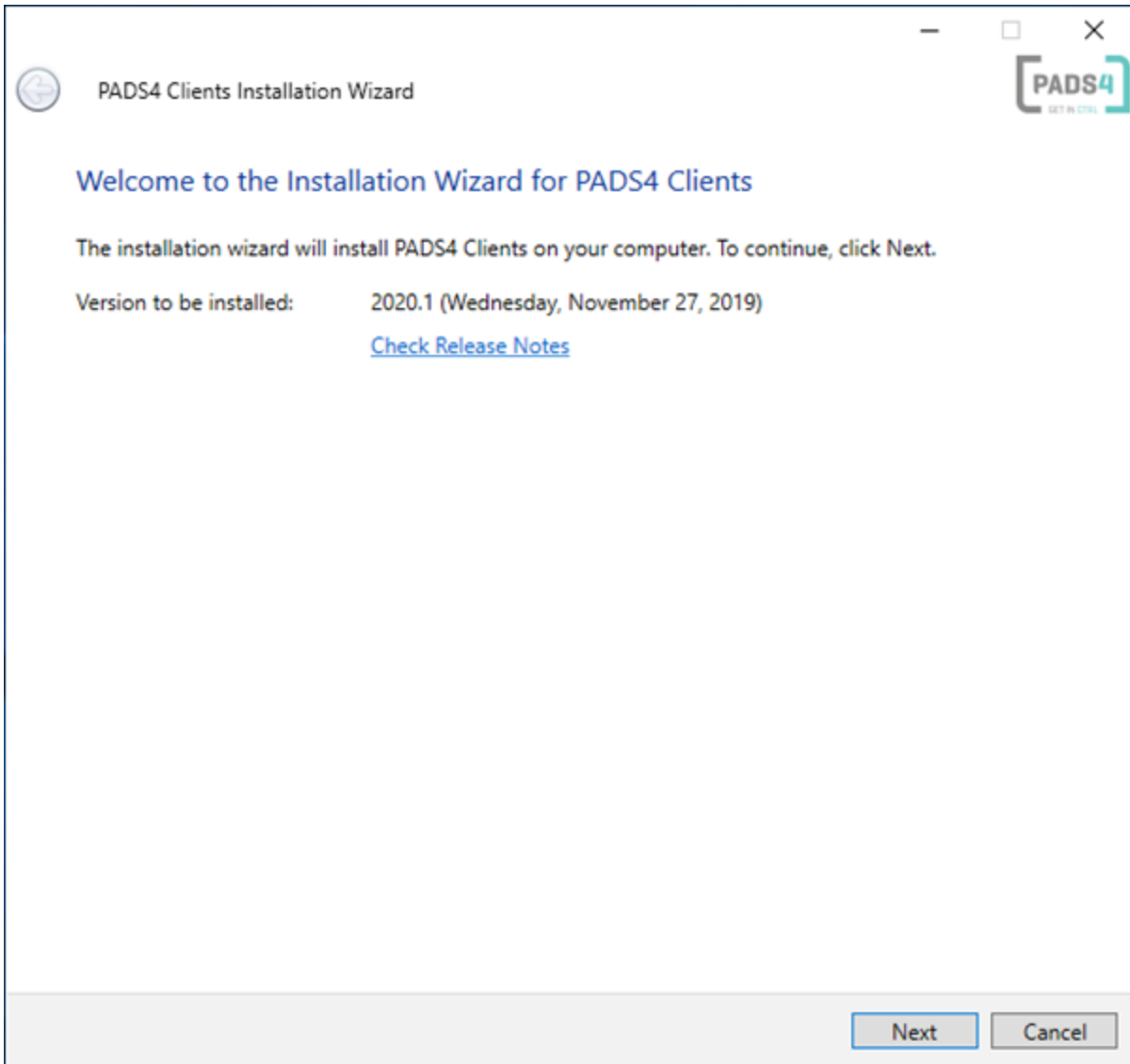
**Note:** *check the properties of the executable as Windows tends to block the file, you can unblock it by checking the unlock checkbox and confirm with OK.*

## Start setup

Execute the PADS4 Clients.exe installation file as an Administrator and choose one of the available languages.

Verify that **Version 2020.1** is to be installed and press Next.





Please make sure to read the License Agreement, if agreed check the check box and press Next.

### User selection

Determine for which users PADS4 Clients needs to be installed and press Next.

### Component selection

Select **Custom Installation** from the drop down menu, and select the following applications to perform a PADS4 Clients installation.



## Select Installation Components

Configuration Custom Installation

Feature	Description
<b>Key Applications</b>	
<input checked="" type="checkbox"/> Designer	Application to design your presentations
<input checked="" type="checkbox"/> Scheduler	Application to schedule your presentations
<input checked="" type="checkbox"/> Messenger	Application to schedule your messages
<input checked="" type="checkbox"/> Viewer	Application to playback your presentations
<input checked="" type="checkbox"/> Desktop Viewer	Application to playback your presentations and messages
<input type="checkbox"/> Agent	Application to monitor and remote manage your installation.
<b>Tools</b>	
<input checked="" type="checkbox"/> Content Organizer	Application to organize your content library with pictures, videos and other types of content
<b>Configuration</b>	
<input type="checkbox"/> License Wizard	Application to install and activate your licenses
<input type="checkbox"/> System Management	Application to manage and configure your system

Next Cancel

Press Next after the selection is made

### Help

Determine whether you wish to install the online help file, reachable by pressing F1 in any of the applications. It will take you directly to the section you are currently working in and we highly recommend installing it.

## Shortcuts

Determine whether you want PADS4 to generate shortcuts in Desktop, Start Menu and StartUp Folder. Optionally you can change the installation folder of PADS4 Clients.

## Installation starts

You should now see that PADS4 Clients is being installed.

When successfully installed, PADS4 Clients should show the "**PADS4 Clients has been successfully installed**" message.

## Network ports used by PADS4

Check out the [Network Ports Configurations page](#) for more information about network ports used by PADS4.



# PADS4 Installation Manual

# How to silent install PADS4 Windows Client applications using commandline parameters

## Software

Check out the [how to install PADS4 Windows Client applications](#) page for more information about installation and downloads.

## PADS4 installation commandline parameters

Command line parameters for silent installation of PADS4 client applications.

Parameter	Description
-q	Silent mode
-s	Silent mode (same as -q)
-m:uninstall	Uninstall
--Config:Complete	Install complete package
--Config:Viewer	Install Viewer only
--Config:Scheduler	Install Scheduler only
--Config:DesktopViewer	Install Desktop Viewer only
	Custom mode. All features can be specified separately. Valid names are:
	<ul style="list-style-type: none"><li>• Designer</li><li>• Scheduler</li><li>• Messenger</li><li>• ContentOrganizer</li><li>• LicenseWizard</li><li>• Viewer</li><li>• DesktopViewer</li><li>• SystemManagement</li><li>• Agent</li></ul>
--Config:Custom	
	Copy after the installation is finished the specified settings files to the destination ProgramData folder.
--SettingsFiles:	The specified file can be adjusted so that for example each Viewer has a server specified by default.

Examples:

```
PADS4 Clients.exe --SettingsFiles:C:\Settings\PADSViewerSettings.xml
```

```
PADS4 Clients.exe --SettingsFiles:\\<Server>\Settings\PADSViewerSettings.xml
```

```
PADS4 Clients.exe --SettingsFiles:http://Settings.nds.eu/Settings/PADSViewerSettings.xml
```

```
PADS4 Clients.exe --SettingsFiles:file1.xml --SettingsFiles:file2.xml
```

```
PADS4 Clients.exe --SettingsFiles:file1.xml;file2.xml
```

```
PADS4 Clients.exe --SettingsFiles:"C:\Path with spaces\file1.xml"
```

### Examples

```
PADS4 Clients.exe -s --Config:Complete
```

```
PADS4 Clients.exe -s --Config:Viewer
```

```
PADS4 Clients.exe -s --Config:Custom=Designer,Scheduler,ContentOrganizer,Agent
```



## PADS4 Installation Manual

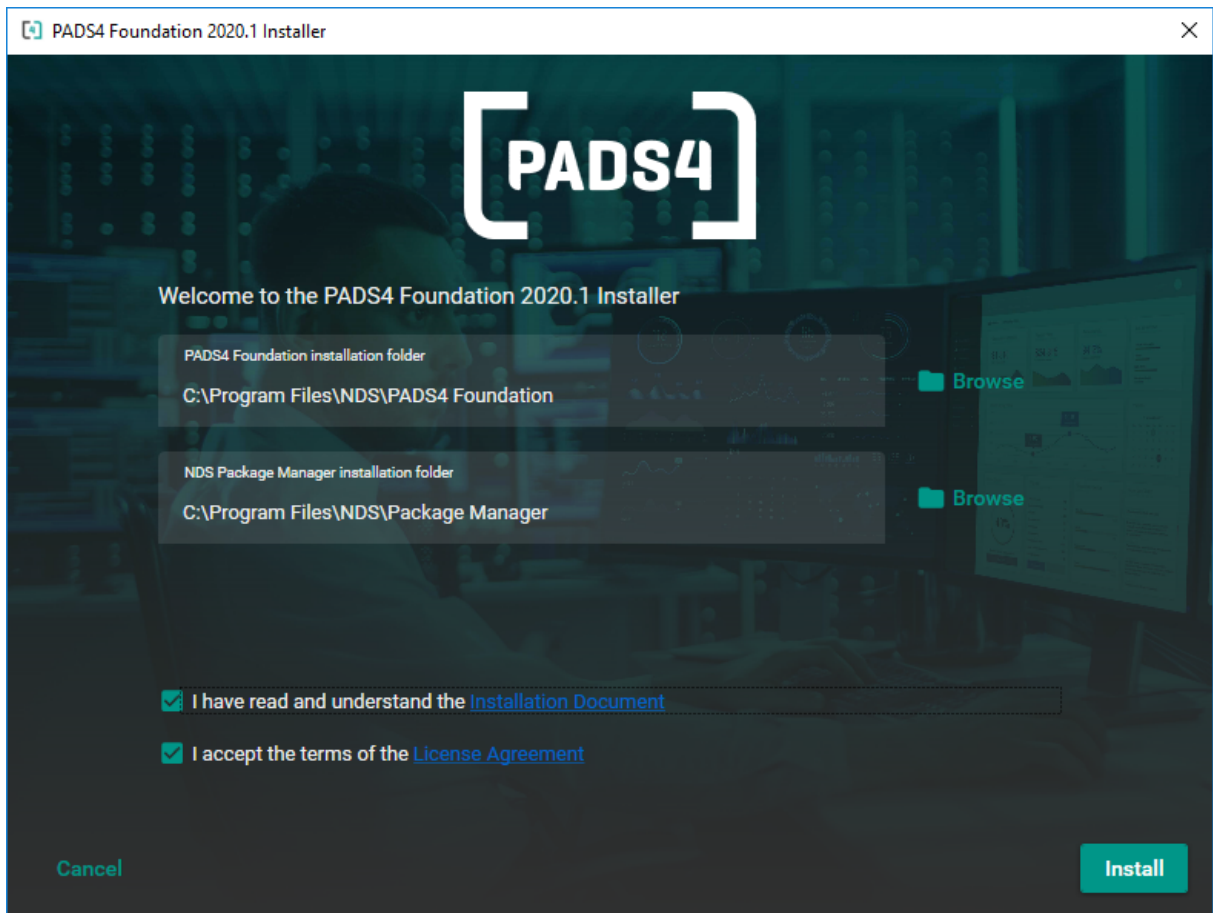
# How to update PADS4 Server

## Download the PADS4 Foundation Setup

Download PADS4 Foundation from <http://go.pads4.com/?fwlink=1010>

## Execute the installation file (as an Administrator)

Right click with the mouse on the installation file and select run as administrator.



Make sure to read the installation document and license agreement before checking the boxes and installing the software.

Installation folders

Change the installation folders if required.

PADS4 Foundation contains all the files required to run PADS4 on the Server.

NDS Package Manager is required and is used to maintain the components of PADS4 which have

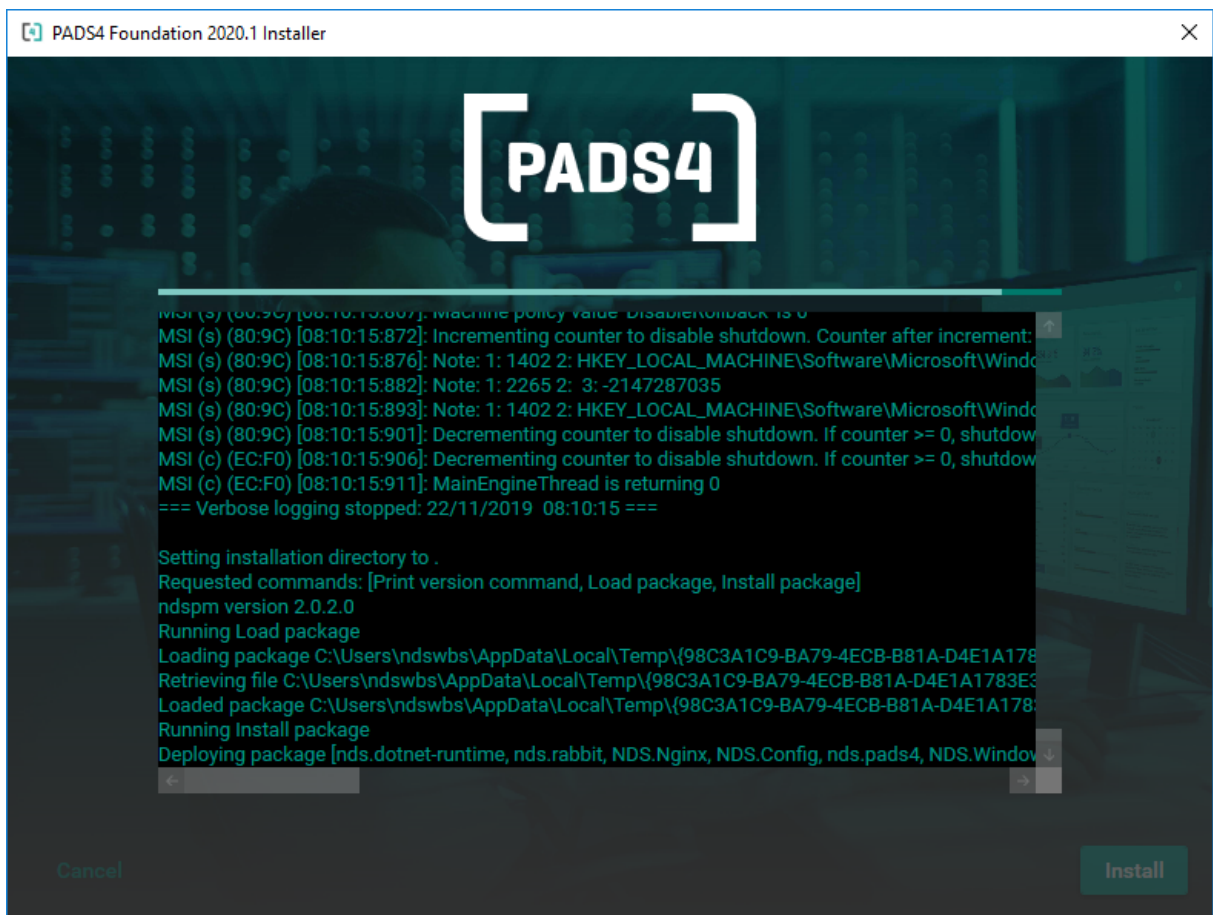
been divided into so called packages.

If the NDS Package Manager is not yet available on your PC, it will also be installed. You may change the installation folder.

If the NDS Package Manager is already installed, the installation folder destination folder option will be hidden.

Optionally change the installation folder if required.

**Check the boxes to confirm and press Install to start the installation process.**



The installation process will start and show the progress as in the picture above.

### **Error during installation**

In case an error occurs a pop up window will occur. This pop up contains a click [HERE](#) link to the log file created.

If you encounter any problems this log file can be of help to investigate the cause of the problem. Every step of the installation process is written to this log.

Error information:



## Failed to install PADS4 Foundation.

PADS4 Foundation Package failed with error code: [-1]

Package deployment failed  
Operation Install package failed  
Error occurred while running application  
NDS.PackageManager.Lib.Exceptions.FileLockException: Failed to lock file C:\Program Files\NDS\PAD

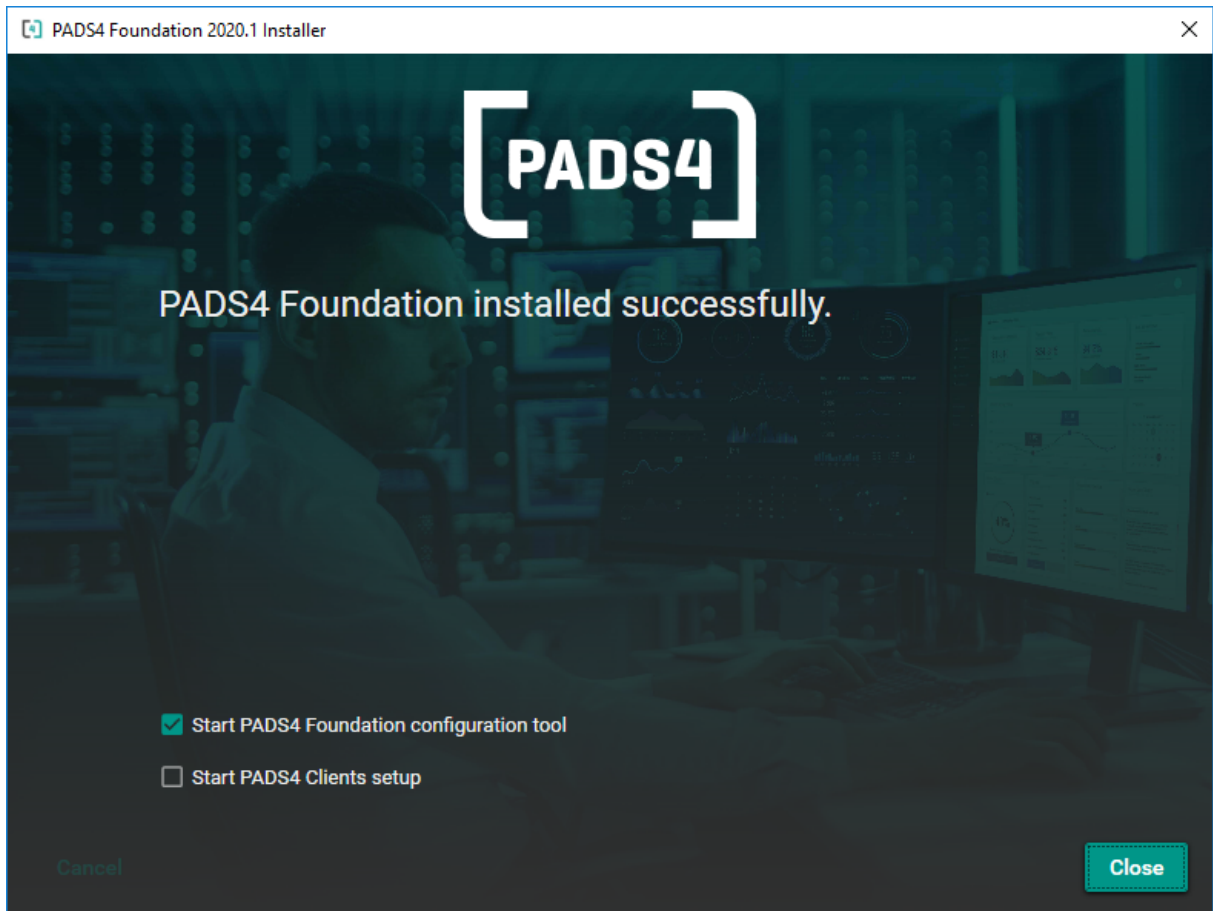
Click [HERE](#) to open the installation log.

Cancel

Close



## Installation finished



When the installation is finished, you should see the PADS4 Foundation installed successfully message as in the picture above.

### **Start PADS4 Foundation configuration tool**

Check the box if you would like to specify configurations settings. If you start the PADS4 Foundation setup the first time, please check the settings.

Check out the "PADS4 Foundation Configuration" on page 356 which contains details about the settings

### **Start PADS4 Clients setup**

If you would like to install additional Windows based PADS4 programs on this PC such as PADS4 Scheduler, PADS4 Designer etc. check the box to start the setup after the PADS4 Foundation installation has been completed. This setup allows you to select which Windows based client components need to be installed.

Check out the "How to install PADS4 Windows Client applications" on page 343 which contains details about the settings

Once you press the Close button, you will be presented with the PADS4 CTRL Center Configuration tool and/or the PADS4 Clients installation wizard.

### **Important**

It is of vital importance that you do not install the PADS4 Foundation on a workstation / Viewer PC (that is only configured for Designer/Scheduler/Content Organizer/Messenger etc.). This will install PADS4 Server functionality on your workstation / Viewer PC, as this would result in setting up the configuration as a Server PC. It is however possible to install the PADS4 Clients software after installing the PADS4 Foundation installation as the machine is then already classified as a Server PC.



## **PADS4 Installation Manual**

## How to upgrade PADS4 Sub Server

Once PADS4 Foundation has been installed or upgraded on the PADS4 (Main) Server, the updates need to be downloaded and installed on the PADS4 Sub Servers also.

### Upgrade Sub Server

Follow the steps written on the "How to update PADS4 Server" on page 349 page to upgrade the Sub Server.

### Upgrade Viewers

After the Sub Server upgrade is finished, you need to upgrade the Viewers to the latest version also.

Follow the steps written on the "How to upgrade PADS4 Viewer" on page 358 to perform an automatic or manual upgrade.

Be aware that upgrading the Servers is required prior to upgrading the Viewer automatically because the Viewer will retrieve the PADS4 software from the Server where it is connected to. If this Server still has an old version it will upgrade to that version.



## PADS4 Installation Manual

## How to upgrade PADS4 Backup Server

Once PADS4 Foundation has been installed or upgraded on the PADS4 (Main) Server, the updates need to be downloaded and installed on the PADS4 Backup Servers also.

### Upgrade Backup Server

Follow the steps written on the "How to update PADS4 Server" on page 349 page to upgrade the Backup Server.

### Upgrade Viewers

After the Backup Server upgrade is finished, you need to upgrade the Viewers to the latest version also.

Follow the steps written on the "How to upgrade PADS4 Viewer" on page 358 to perform an automatic or manual update.

Be aware that upgrading the Servers is required prior to upgrading the Viewer automatically because the Viewer will retrieve the PADS4 software from the Server where it is connected to. If this Server still has an old version it will update to that version.



## PADS4 Installation Manual

# PADS4 Foundation Configuration

PADS4 Foundation Configuration allows you to specify configuration settings.

**PADS4 FOUNDATION CONFIGURATION** [X]

**PADS4 Server**

HTTP Port: 9005 + -

IP address: 127.0.0.1

**PADS4 Foundation**

HTTP Port: 81 + -

HTTPS Port (SSL) + -

DNS Host Name: \_\_\_\_\_

Certificate file: \_\_\_\_\_ ...

Private Key file: \_\_\_\_\_ ...

Apply

Here you are able to specify the ports that PADS4 should be operating on and the IP address of your PADS4 Server PC and press apply when configuration is as desired.

## PADS4 Server

- HTTP Port  
The port used to communicate with the PADS4 Server (default is 9005)
- IP address  
By default the IP address of PADS4 Server is localhost (127.0.0.1). Normally PADS4 Foundation and PADS4 Server are located on the same PC.

## PADS4 Foundation

- HTTP Port  
The HTTP port used to host the PADS4 CTRL Center (default is 80)
- HTTPS Port (SSL)

The security certificate for using the PADS4 CTRL Center with SSL

- DNS Host Name Domain which is registered
- Certificate file .certificate file
- Private Key file .private file

**When all settings are successfully applied after click apply, PADS4 Foundation will restart all processes with the new settings.**

**Tip: Default username and password after installation is for both "user1"**

Please change this after the first logon using the account icon on the right top of the webportal.

Be aware that it may take up to 30 seconds based on your hardware specs to restart all processes.

### Sensor database type selection

Click [here](#) to show the Sensor database type selection page.

### Check out if the server is running

If you want to verify that the PADS4 server is running, perform the following check.

Open a webbrowser and specify "http(s)://localhost:<port>". Use https or http based on you settings. Specify the right port number as specified.

The logon page of PADS4 CTRL Center should occur.

### PADS4 Clients installation help

Check out the "How to upgrade PADS4 Windows Client applications" on page 363 page for installation instructions on.



## PADS4 Installation Manual

# How to upgrade PADS4 Viewer

## In this section

### **Automatic upgrade**

Describes the steps to have your PADS4 Viewers perform upgrade automatically.

### **Manual upgrade using PADS4 Client setup**

Describes the steps to perform the upgrade to your PADS4 Viewers manually.

### **Other manual upgrade**

Be aware that PADS4 needs admin rights and when the update is installed in a different folder as the first installation has taken place, this can cause the Viewer to malfunction because of insufficient permissions.

We do not provide other upgrade steps than using the PADS4 Client setup to install Viewers.

\*Please note that this applies to Windows based PADS4 Viewers only. HTML5 based PADS4 Viewers will automatically upgrade when the PADS4 Servers are upgraded. Check out the [Install PADS4 HTML5 Viewers](#) section for more information about installation on HTML5 devices.

## Automatic upgrade

PADS4 Viewers can be automatically upgraded via the PADS4 Agent that is installed on the upgraded PADS4 Main Server and or PADS4 Sub Server.

### **Be aware that you have to upgrade the PADS4 Server first before you are able to upgrade a Viewer using the PADS4 Agent.**

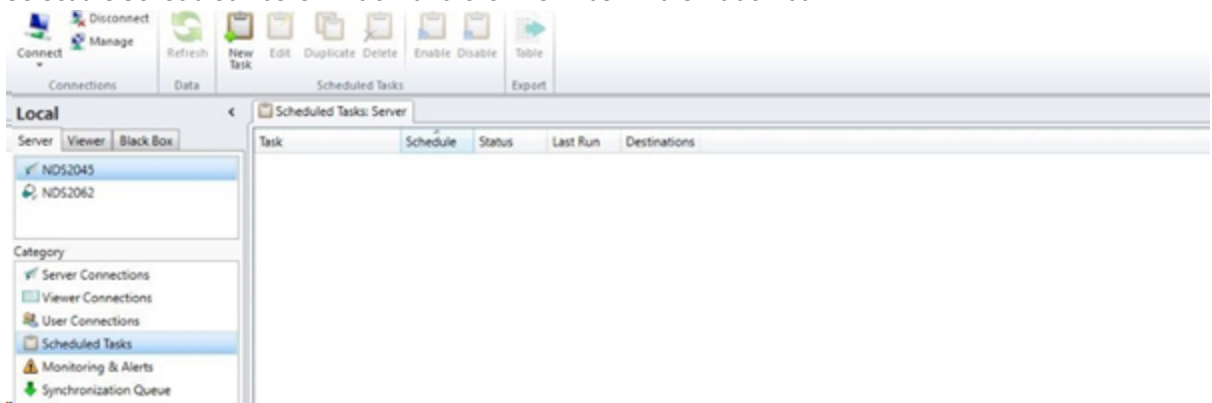
The upgrade process uses the version of the installed PADS4 Server and installs the same version on the Viewer.

**NOTE:** If you are planning to use a script to update Viewers and not use the automatic upgrade using the PADS4 Agent, be aware that the Viewers were installed using Admin rights. Updates where the destination folder specified is different from the original installation folder will malfunction due to insufficient permissions. Please update the PADS4 Viewer using the same folder as used during the first installation.

## To upgrade PADS4 Viewers automatically

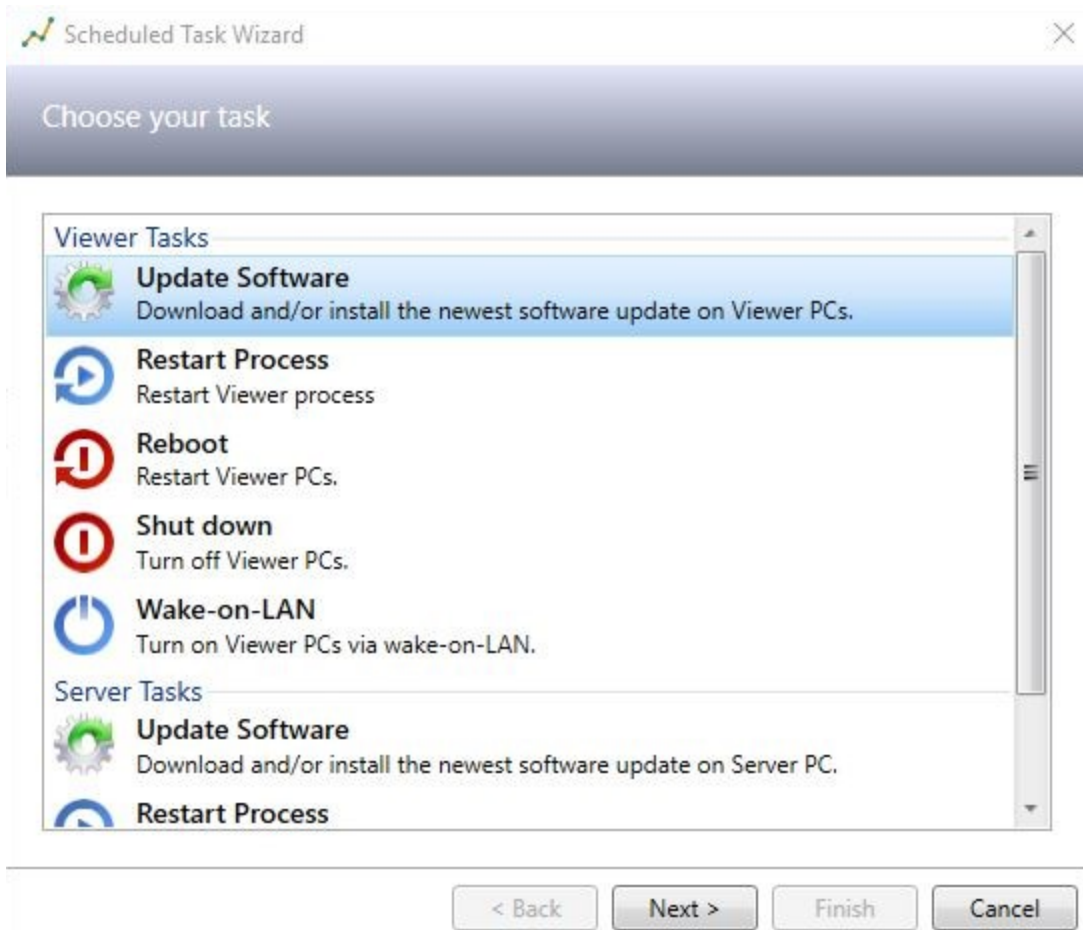
You need to use the PADS4 Agent application installed on the PADS4 Main Server or PADS4 Sub Server to upgrade the PADS4 Viewers to the same version as the PADS4 Main server and or PADS4 Sub Servers.

- Click the Start button on the Windows task bar
- Select (All) Programs, PADS4 and then Agent
- After having logged on successfully, the Agent's main window is shown
- Select the Scheduled Tasks window and click New Task in the ribbon bar



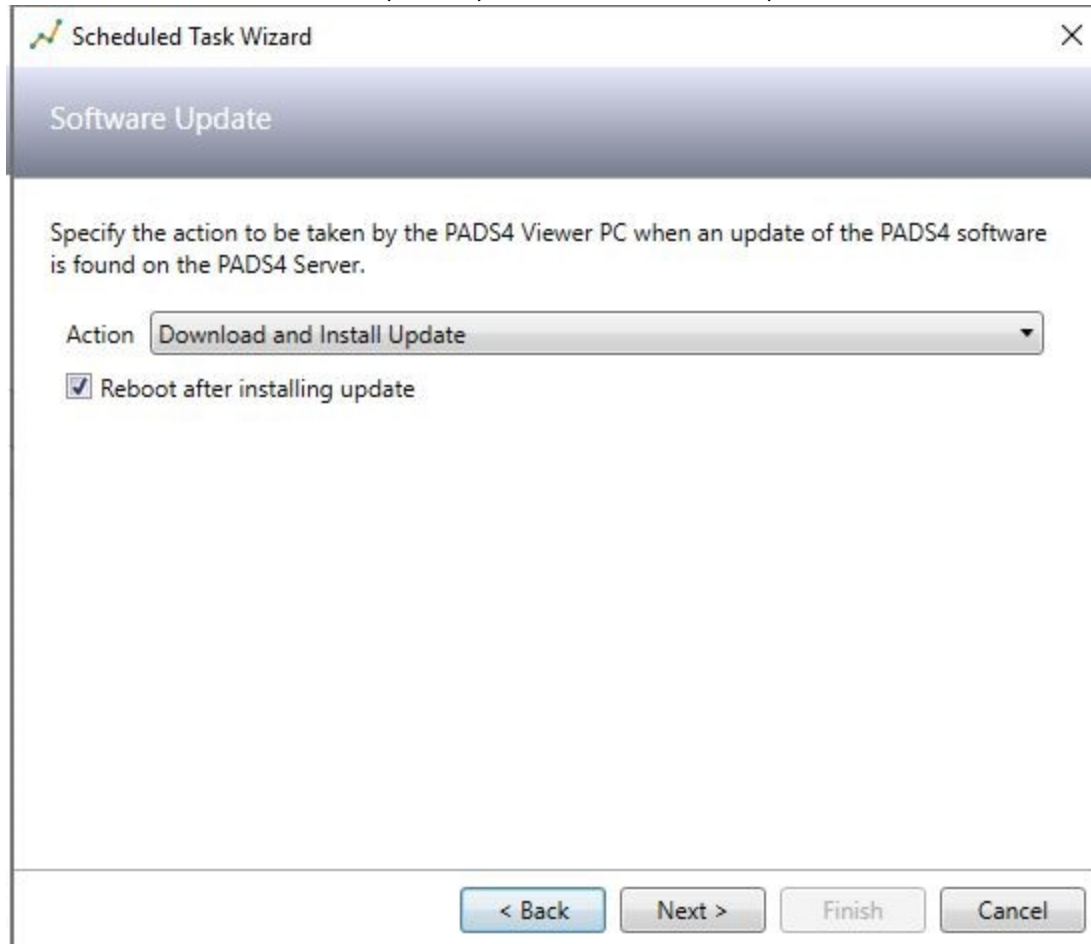
- A new window will be displayed. Scroll down the list and select Viewer Tasks and the Update Software option





- Click Next

- Select the Download and Install Update option from the Action drop down list



The screenshot shows a window titled "Scheduled Task Wizard" with a close button (X) in the top right corner. Below the title bar is a dark blue header with the text "Software Update". The main area contains the following text: "Specify the action to be taken by the PADS4 Viewer PC when an update of the PADS4 software is found on the PADS4 Server." Below this text is a dropdown menu labeled "Action" with "Download and Install Update" selected. Underneath the dropdown is a checkbox labeled "Reboot after installing update" which is checked. At the bottom of the window, there are four buttons: "< Back" (highlighted in blue), "Next >", "Finish", and "Cancel".

- Click Next
- Select the PADS4 Viewers that you would like to update.  
Select the Select All checkbox to update all the Viewers in your PADS4 system.
- Click Next
- Select when the update tasks should be executed. You can specify that the update will need to run now or a later time and date.  
If you specify that the update takes place at this moment, be aware that this will be visible to the audience in front of the Viewer.
- Click Finish

The scheduled task will be forwarded to all selected Viewers and the Viewers will update on the selected date/time you have chosen.

You can view the progress of the scheduled task in the PADS4 Agent.

If the scheduled task has been successful, the PADS4 Viewers have been upgraded.

### **Manual upgrade**

Follow the instructions as described in "How to install PADS4 Viewer" on page 71



## **PADS4 Installation Manual**

# How to upgrade PADS4 Windows Client applications

**Important:** This installation applies to a new system to install the latest PADS4 Client 2020.1 build. It is of vital importance that **you do not install the PADS4 Foundation 2020.1 build on a workstation / Viewer PC**. This will corrupt the functionality of your workstation / Viewer PC, as this would result in setting up the configuration as a Server PC.

**If you want to install or upgrade PADS4 Server, please check the "How to install PADS4 Server" on page 49 or "How to update PADS4 Server" on page 349 page.**

With PADS4 version 2020.1 the installation process has changed. Please check out this page for more information about the changes.

## Download PADS4 Client setup

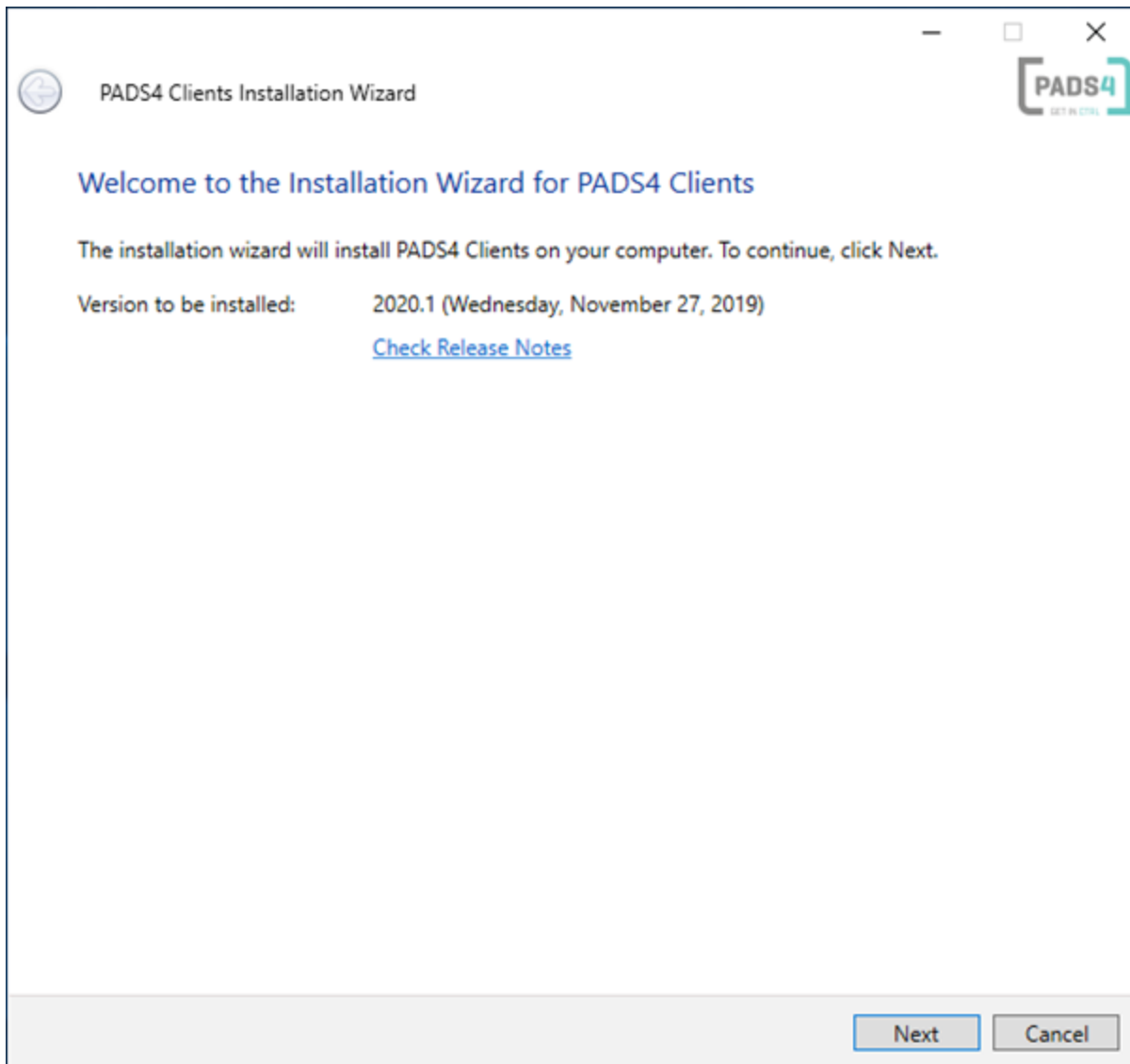
Download the PADS4 Client setup software from \*<http://go.pads4.com/?fwlink=1011>

**Note:** check the properties of the executable as Windows tends to block the file, you can unblock it by checking the unlock checkbox and confirm with OK.

## Start setup

Execute the PADS4 Clients.exe installation file as an Administrator and choose one of the available languages.

Verify that **Version 2020.1 or higher** is to be updated/installed and press Next.



The system is now ready to update. Click **Update** to start the upgrade process.

Once the upgrade is finished, you will receive a message stating that the PADS4 Clients has been successfully upgraded.

When successfully upgraded, PADS4 Clients should show the "**PADS4 Clients has been successfully installed**" message.



## **PADS4 Installation Manual**

# PADS4 Active Directory Synchronization Installation

Using PADS4 Active Directory Synchronization package will allow you to synchronize one or more Active Directory groups with PADS4.

This way a user who is removed from Active Directory will automatically be removed from PADS4 instantly. The moment the user is removed, an event is raised to tell PADS4 to prevent the user from logging onto the system and when already logged on, the user will be logged out.

## Prepare the Active Directory package installation

We recommend that you create a user account without any licenses but that is part of the administrator group in PADS4. Because the PADS4 Active Directory Synchronization service has an active connection to the PADS4 Server and if you use an existing user account, it will be blocked when connection to PADS4 System Management.

Also, make sure that you configured your active directory connection in PADS4 before configuring the Active Directory Synchronization service, because it will use these connections for the synchronization.

You can **configure the Active Directory connection in the main server properties in PADS4 System Management.**

## Installing PADS4 Active Directory Synchronization package.

You can install the PADS4 Active Directory Synchronization service by running the supplied installer package. Currently this package is not yet public. Please ask our Sales & Marketing department for the package.

### **Start Installer package**

You need to accept the terms of the license agreement and then you can press the install button. Optionally you can change the installation folder.



After installation, it will automatically start the PADS4 Active Directory Synchronization configuration tool, if the option is checked.



## Configuring Active Directory Synchronization



To configure the PADS4 Active Directory Synchronization service, you need to run the PADS4 Active Directory Synchronization Configuration tool. First, you need to specify the PADS4 connection settings to connect to an existing PADS4 Server with a user account that has system management rights. Preferably, the one created especially for this service, as mentioned before.

When all connection settings are specified, you need to press the connect button and it will try to connect to the PADS4 Server. If successful, it will retrieve the Active Directory settings from the PADS4 Server.

Now you need to add the Active Directory groups from which the members need to be synchronized to the PADS4 Server. You can do this by pressing the plus button and it will open an active directory browser, which allows you to select a single active directory group.

After that, you can repeat this process to add multiple groups.

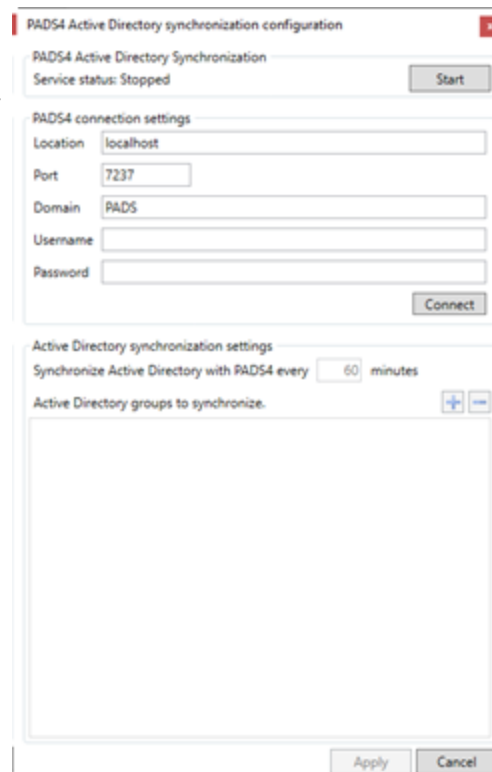


Fig 1: empty settings after installation

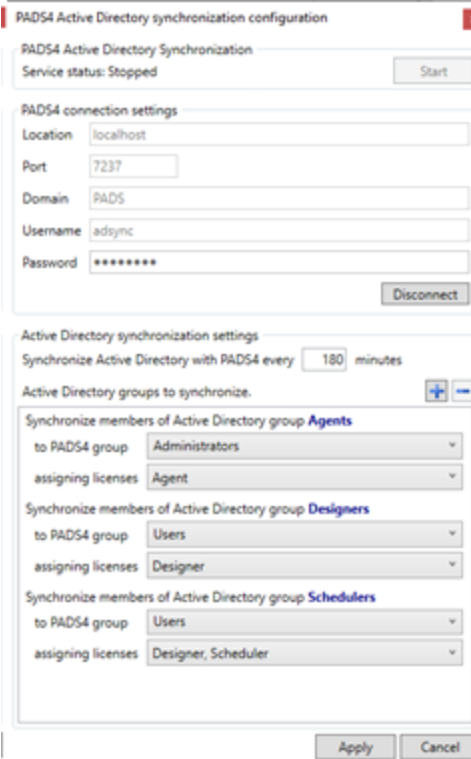
For each member of the Active Directory groups a user account is created on the PADS4 server, this user account will be assigned to the specified PADS4 user groups and will be given the licenses specified in the configuration tool (if enough licenses are available).

**The PADS4 Active Directory Synchronization service will register for member changes of the specified Active Directory groups, so when a member is added or removed it will capture the event and synchronize this change to the PADS4 Server.**

However, if this fails there is a default synchronization interval, which will always trigger the synchronization between Active Directory and PADS4.

When the configuration is complete, you only need to press the apply button, it will store the settings, start the PADS4 Active Directory Synchronization service and close the configuration application.

If you do not want to store the changes you made and decide to cancel the configuration, it will not start the PADS4 Active Directory Synchronization service.

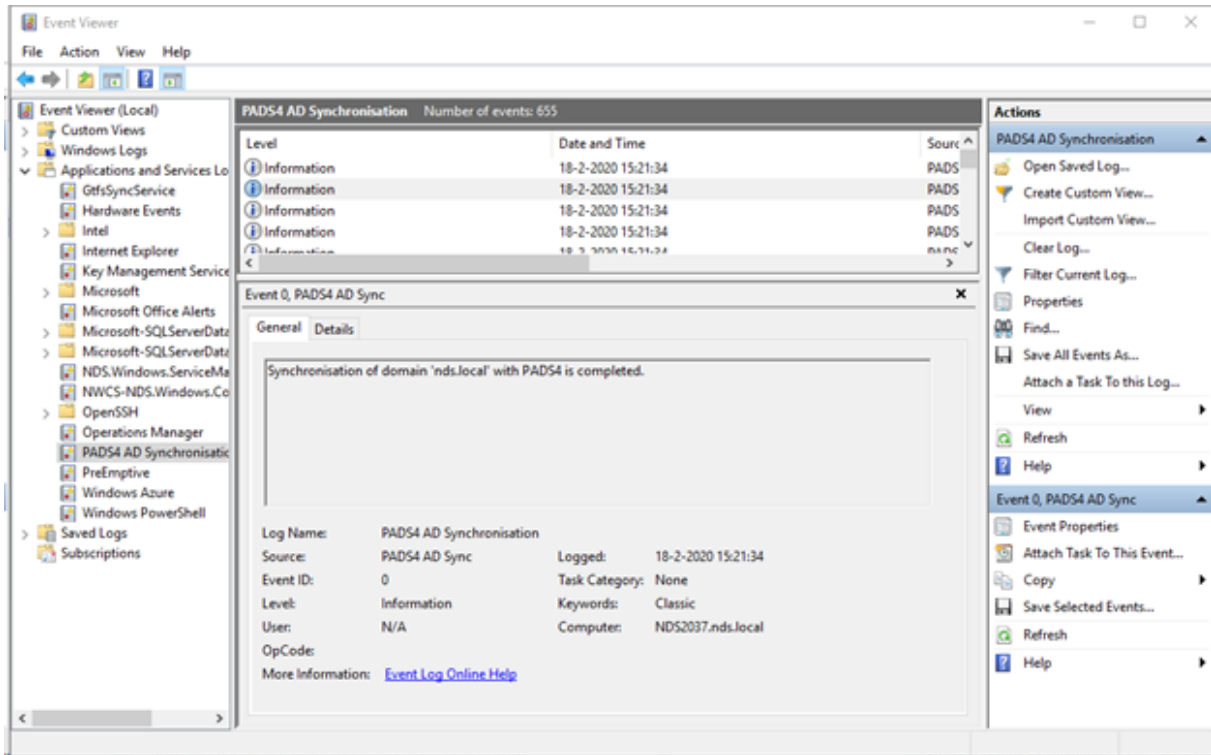


The screenshot shows the 'PADS4 Active Directory synchronization configuration' window. At the top, it displays 'PADS4 Active Directory Synchronization' with a 'Service status: Stopped' and a 'Start' button. Below this is the 'PADS4 connection settings' section, which includes fields for 'Location' (localhost), 'Port' (7237), 'Domain' (PADS), 'Username' (adsync), and 'Password' (masked with asterisks), along with a 'Disconnect' button. The 'Active Directory synchronization settings' section shows 'Synchronize Active Directory with PADS4 every 180 minutes' and a list of 'Active Directory groups to synchronize'. Three groups are listed: 'Agents' (synchronizing to 'Administrators' group with 'Agent' license), 'Designers' (synchronizing to 'Users' group with 'Designer' license), and 'Schedulers' (synchronizing to 'Users' group with 'Designer, Scheduler' license). At the bottom, there are 'Apply' and 'Cancel' buttons.

Fig 2: Example of possible settings

## Troubleshooting

If you are experiencing problems with the PADS4 Active Directory Synchronization, you can open the Windows Event Viewer and access the PADS4 AD Synchronization log. It is located in Applications and Services Logs container.



## PADS4 Installation Manual

## **PADS4FIDS Introduction**

Manage and display flight information at your airport with our FIDS (Flight Information Display System).

With FIDS software you typically manage centrally what you want to display on the FIDS screens across your airport. From the FIDS screens at the arrival & departure hall and the check-in area to the screens at the gates and baggage belts, in the business lounge and at all other places where flight information is required.

[Click here](#) to find out how to start your PADS4FIDS Operator

## Smart FIDS

Each FIDS product is able to display flight information. Most products nowadays also have the ability show flight information in combination with advertising. That's all no big deal. The question is how you can do more for your passengers by making your FIDS smart.

For your FIDS software to be smart it should 'recognize a situation' by itself and dynamically respond to it by displaying contextually relevant content that best suits the needs of your audience.

For example displayed flight information at your airport may include directions and walking distances to the gate. However, to make it really smart it would need to dynamically adjust itself to the waiting times at the security check.

New technologies enable you to go even further. With smart phone analysis tools you have the possibility to detect for instance that the majority of your audience is Spanish. In that case the FIDS software could automatically respond by adding Spanish as an additional language to the flight information on the screens.

## PADS4

The PADS4 product contains a dedicated Data Provider which is able to connect to the PADS4FIDS product. This allows the user to make a connection to the FIDS system just by clicking on some options based on what information you would like to show. The wizard guides the designer through the available options which have been prepared for the tasks that commonly are used within the airport such as information for departures, arrivals, check-ins, gates, baggage belts and flight information for the staff.

Besides this feature the information also contains predefined fields that can be used for advanced rules and filters that allow the user to create an even smarter system that is able to respond on certain conditions automatically.

## Beyond FIDS

PADS4 is used worldwide in lot's of markets such as corporate, transportation, retail, education, healthcare, government, hospitality, manufacturing and other industries. PADS4 is able to connect to a large number of external data sources and automatically integrate this into the presentation. Information from for instance the companies databases, social media's, weather forecasts or traffic information can be integrated just by following the wizard where the user does not need to have any technical knowledge to get this connection working.

This integration with other sources combined with FIDS information will give you the opportunity to create an even smarter solution.



## PADS4 Installation Manual

# PADS4FIDS Installation

When PADS4 Foundation is installed, the PADS4FIDS product is also installed on the same server.

## Step 1

After the installation of the setup is finished, **Start PADS4 CTRL Center** to enter the product key you retrieved in the Licenses menu.

[Click here](#) to open the online PADS4 CTRL Center help which explains how to enter a new product key.

## Step 2

Start the PADS4 System Management application and use your credentials to log on. (**Default user after installation is user1 with password: user1**)

## Step 3

[Specify the SQL Database settings by editing the PADS Server Settings for PADS4FIDS.](#)

PADS4FIDS uses SQL Server for data storage.

These settings can be specified using the PADS4 System Management application.

## Step 4

Add a User License for the PADS4FIDS Operator.

To allow a user to start the PADS4FIDS Operator, a license for the PADS4FIDS Operator must be assigned.

Assignment of licenses can be performed using PADS4 CTRL Center application.

## Step 5

[Start the PADS4FIDS Operator.](#)

Use a web browser such as Internet Explorer or Chrome to start the PADS4FIDS Operator.



# Start PADS4FIDS Operator (with your PADS4 account)

Before you can Sign In, you need to enter the start up URL in your browser.

## To connect to your PADS4FIDS Operator

**Enter the URL in the textbox of your webbrowser:**

Http://<Server Name>/PADS4/FIDS/Operator

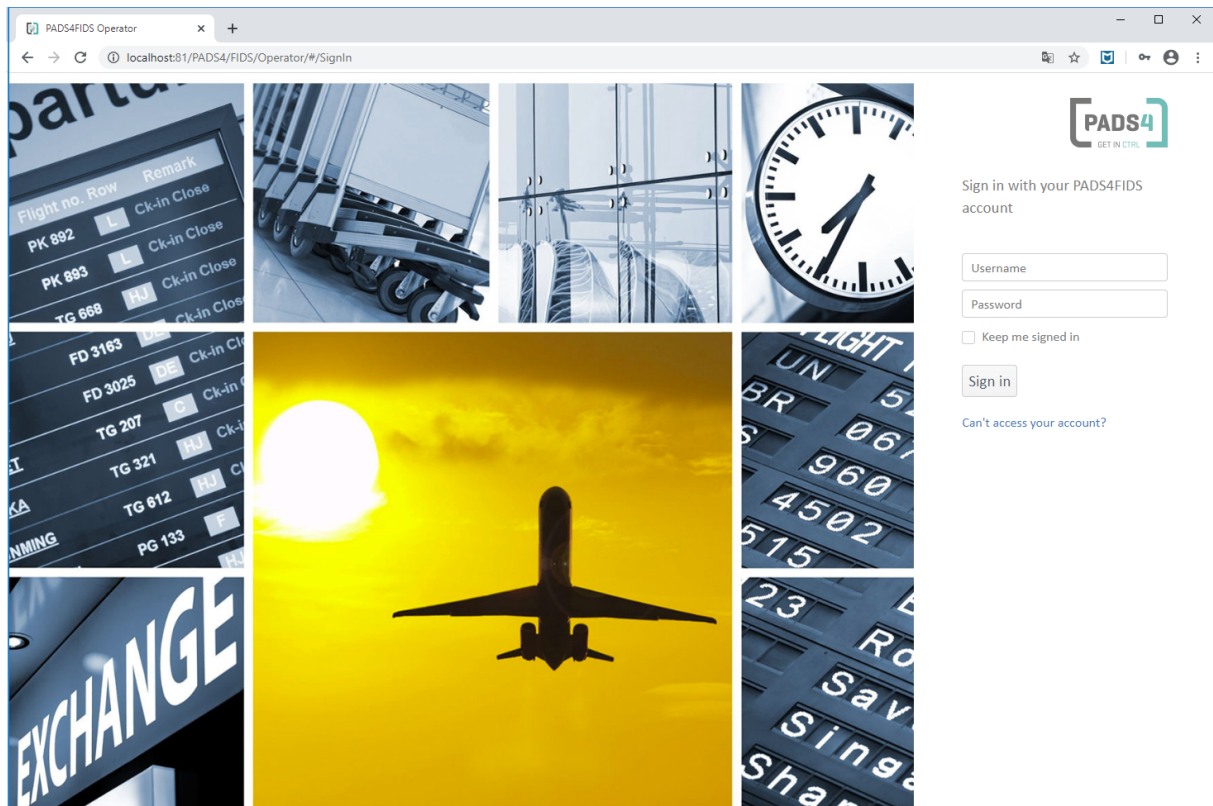
<Server Name> must be replaced by the name or ip address of the server where PADS4FIDS Operator is installed.

Optionally you may enter the required portnumber:

Http://<Server Name>:<port>/PADS4/FIDS/Operator

## To Sign In

When the URL specified is correct, the Sign In page will be displayed.



Fill in the **Username** and **Password**. Optionally enable the **Keep me signed in** option which allows you to automatically Sign In the next time.

Press the **Sign in** button to logon.

If you press the **can't access your account**, the help environment will be opened in a separate window.

When valid credentials are entered, the PADS4FIDS Operator main window will be launched.

### **No credentials?**

If you do not have credentials check with your administrator if you have a license for the PADS4FIDS Operator assigned.

Use the PADS4 System Management application to add a license for PADS4FIDS Operator.

### **No web page found?**

If you receive the error message 'page is not found', please check your [installation](#).

## PADS4 Server settings for PADS4FIDS

These settings determine the Database settings needed for the PADS4FIDS product.

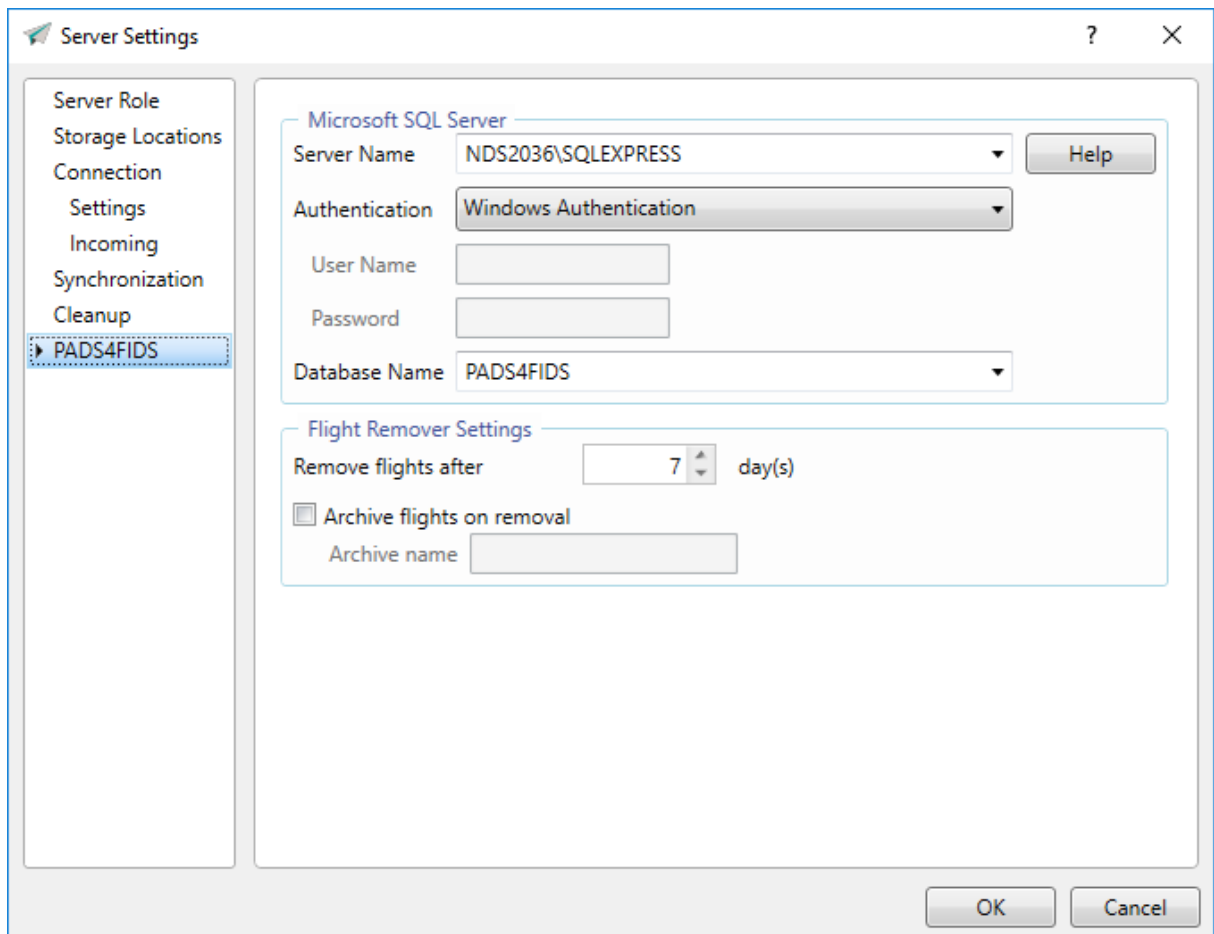
Start the PADS4 System Management Application, logon and click on **Server Settings** in the left panel.

Next press the **Edit** option under Server Settings in the Ribbonbar.

Finally select the **PADS4FIDS** option in the list.

### NOTE

This option is only available when there is a valid PADS4FIDS product license. If not, the PADS4FIDS options will be hidden.



The screenshot shows the "Server Settings" dialog box with the "PADS4FIDS" option selected in the left-hand navigation pane. The main area is divided into two sections:

- Microsoft SQL Server**:
  - Server Name: NDS2036\SQLEXPRESS (dropdown menu)
  - Authentication: Windows Authentication (dropdown menu)
  - User Name: (text input field)
  - Password: (text input field)
  - Database Name: PADS4FIDS (dropdown menu)
- Flight Remover Settings**:
  - Remove flights after: 7 (spin box) day(s)
  - Archive flights on removal
  - Archive name: (text input field)

Buttons for "Help", "OK", and "Cancel" are visible at the bottom of the dialog.

## Microsoft SQL Server

If you need to manually install the PADS4FIDS database there are three possibilities:

- [Create the database manually with Microsoft SQL Server Management Studio](#)
- [Create the database manually with SQL statements](#)
- [Create the database manually with Powershell](#)

### Server Name

Specify the SQL Server.

When the dropdown is opened, it can take some seconds to fill the combobox with the available items.

### Authentication

When SQL Server Authentication is selected, specify the User Name and Password.

When the dropdown is opened, it can take some seconds to fill the combobox with the available items.

### Database Name

Select the database name that must be used for PADS4FIDS.

If the database does not exist, PADS4 Server will try to create the database after these settings have been saved.

If the selected database is not a PADS4FIDS database, the database it's structure will be adjusted and the original database is removed including data.

### Help

Press the help button to open the web help for PADS4FIDS.

## Flight Remover Settings

### Remove flights after x days

Specify the number of days after which the operational flights must be removed from the operational database.

If the archive database is specified, the flights will be stored in this archive database.

### Archive flights on removal

Optionally specify the archive name of the database where flights are stored after they must be removed from the operational database.

If no archive is specified, the removed flights will no longer be available.

# Setup a SQL Fail over installation

It is possible to have a PADS4FIDS fail over installation by using two PADS4 Servers and a DNS API switcher with the SQL database being on a central point in the network that is not on a PADS4 Server.

## Step 1

Follow the steps to create a SQL database found [here](#) on a separate server in the network such as a SQL Server.

## Step 2

Setup and install two separate PADS4FIDS servers on two separate VM's or physical servers. These servers will use the same licensing, however you will need to contact our sales team to allow this configuration.

The installation manual can be found [here](#).

## Step 3

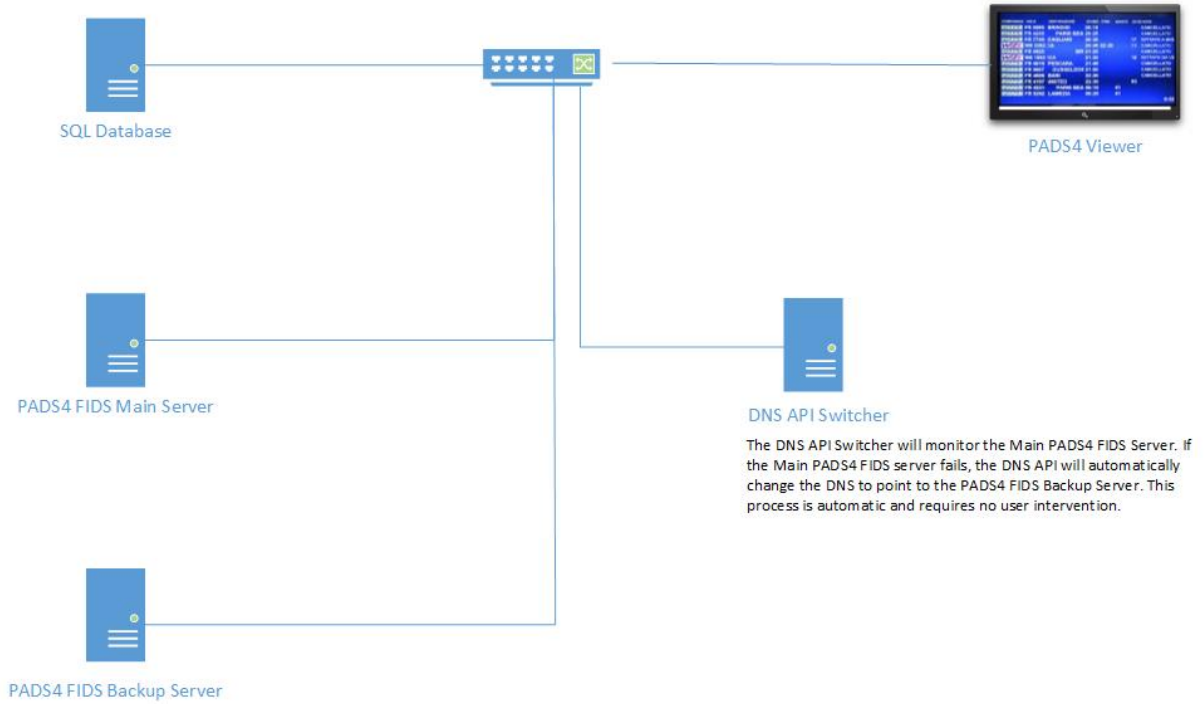
You will need to install a DNS API Switcher on a machine in the network that is not the PADS4 Servers. This can be the SQL server or any other machine that can communicate to both the PADS4 Servers as well as all the PADS4 Viewers. The DNS API Switcher will need to use the first PADS4 Server as the main server and then switch the DNS to the secondary PADS4 Server when the first becomes unavailable on the network.

## Step 4

Once the DNS API Switcher has been configured to point to the main PADS4 Server, you will need to use the DNS address as the IP for the PADS4 Server of the PADS4 Viewers connection information. The ports will not change unless specified. The default ports are port 80 and port 7237.

Users will need to use the DNS address when using the PADS4FIDS Operator to ensure that the system will reflect their changes regardless of which server is currently operational.

A network diagram is displayed below on how this scenario would be deployed:

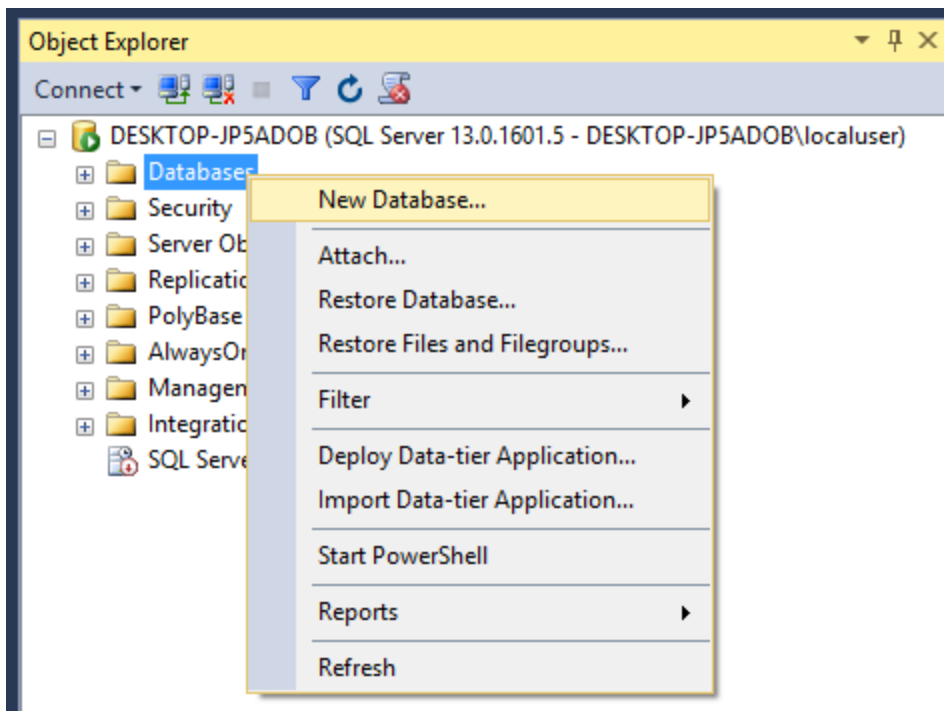


The DNS API Switcher will monitor the Main PADS4 FIDS Server. If the Main PADS4 FIDS server fails, the DNS API will automatically change the DNS to point to the PADS4 FIDS Backup Server. This process is automatic and requires no user intervention.

# Create the database manually with Microsoft SQL Server Management Studio

These steps will guide you through the process of creating the PADS4FIDS database using SQL Server Management Studio.

## Step 1



- Open SQL Server Management Studio
- Login to the Database Engine
- Expand the server
- Right-click Databases
- Click New Database...

## Step 2

**New Database**

Select a page

- General
- Options
- Filegroups

Script Help

Database name: PADS4FIDS

Owner: <default>

Use full-text indexing

Database files:

Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth / Maxsize
PADS4FIDS	ROWS...	PRIMARY	8	By 64 MB, Unlimited
PADS4FIDS...	LOG	Not Applicable	8	By 64 MB, Unlimited

Connection

Server: DESKTOP-JP5ADOB

Connection: DESKTOP-JP5ADOB\localuser

[View connection properties](#)

Progress

Ready

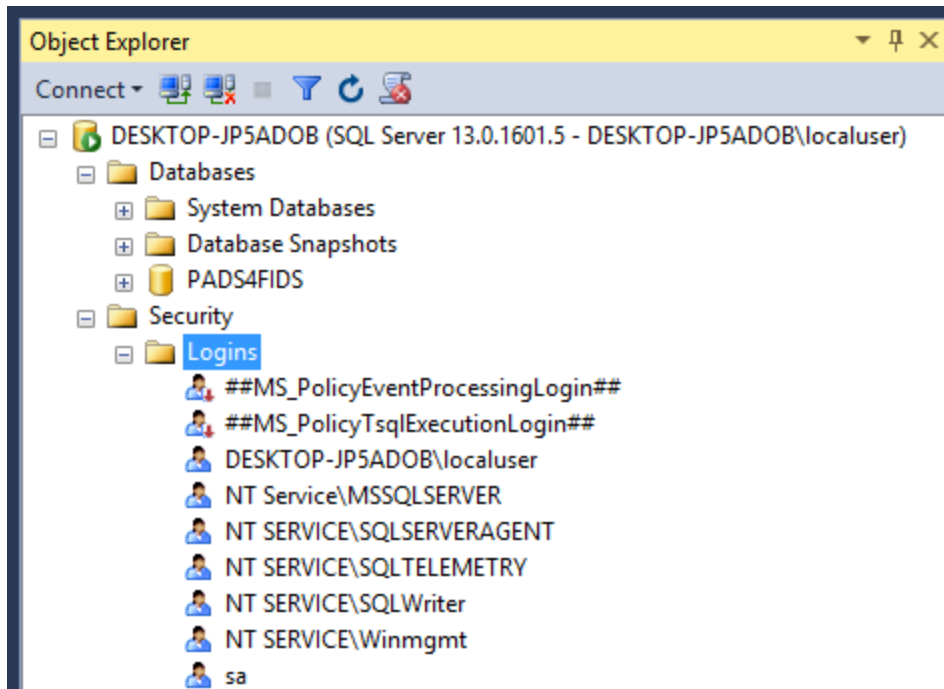
Add Remove

OK Cancel

- Enter the Database Name: **PADS4FIDS**
- Click OK



### Step 3

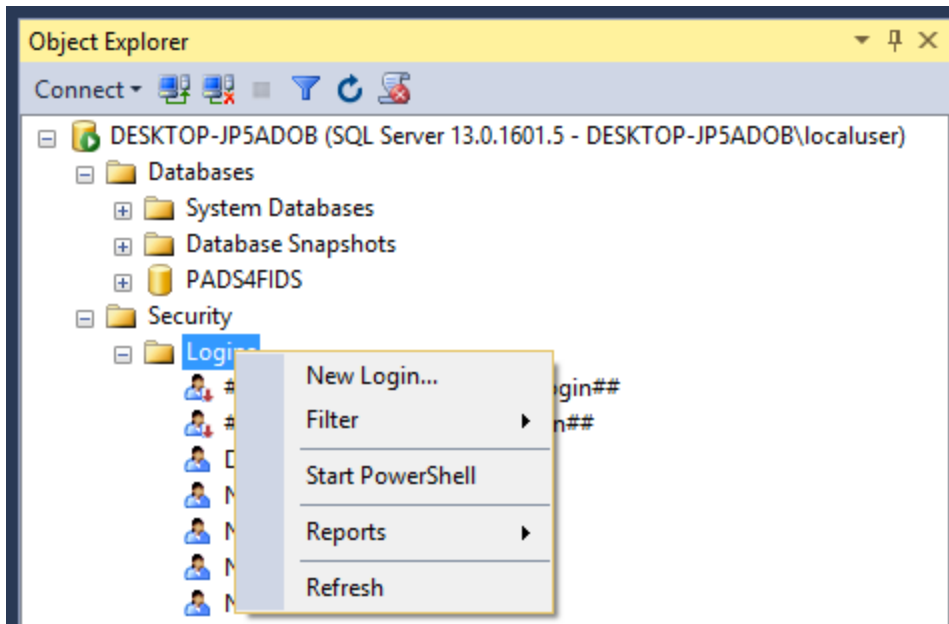


- Expand Security
- Expand Logins
- Check if NT AUTHORITY\SYSTEM is listed

If it is not listed, continue, else

- o Right-click NT AUTHORITY\SYSTEM
- o Click Properties...
- o Goto step 6

#### Step 4



- Right-click Logins
- Click New Login...

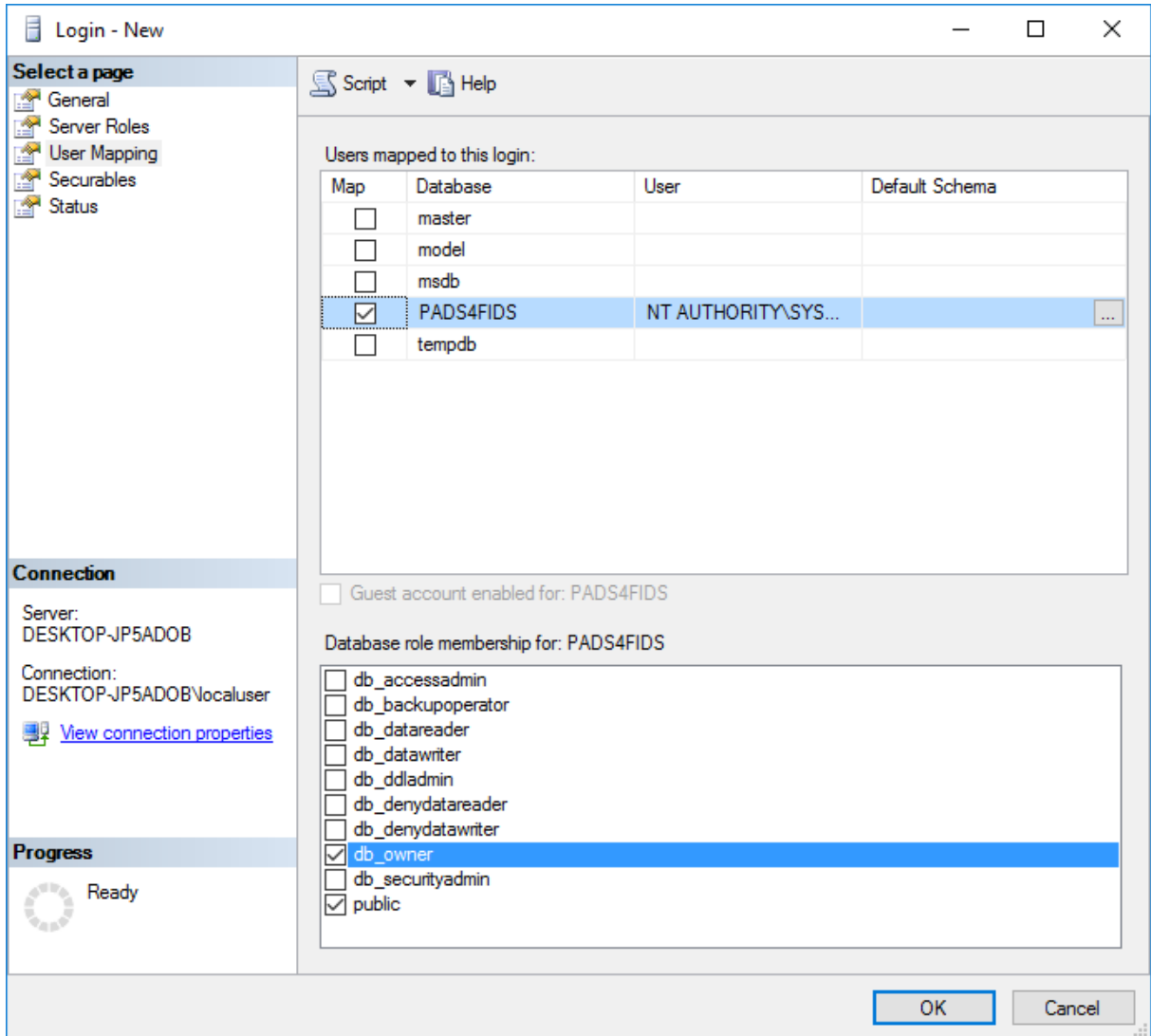
## Step 5

The screenshot shows the 'Login - New' dialog box with the following configuration:

- Login name:** NT AUTHORITY\SYSTEM
- Authentication:** Windows authentication (selected)
- Password fields:** Empty
- Options:** Enforce password policy, Enforce password expiration, and User must change password at next login are checked.
- Mapping:** Mapped to certificate, Mapped to asymmetric key, and Map to Credential are all unselected.
- Mapped Credentials:** An empty table with columns 'Credential' and 'Provider'.
- Default database:** master
- Default language:** <default>
- Progress:** Ready

- Enter the Login Name: **NT AUTHORITY\SYSTEM**
- Check Windows authentication

## Step 6



- Select the User Mapping page
- Check the PADS4FIDS database in the Users mapped to the login section
- Check db\_owner in de the Database role membership for: PADS4FIDS section
- Click OK

## Create the database manually with Powershell

These steps will guide you through the process of creating the PADS4FIDS database using Powershell.

**Execute the following PowerShell commands (on the system which has SQL Server installed) with a user account which has system admin permissions on SQL.**

```
$sqlConnection = new-object system.data.SqlClient.SqlConnection("Data Source=localhost;
Integrated Security=SSPI;Initial Catalog=master");

$sqlCommand = new-object System.Data.SqlClient.SqlCommand;

$sqlCommand.Connection = $sqlConnection;

$sqlCommand.CommandText = "IF NOT EXISTS (SELECT * FROM [master].[sys].[server_principals]
WHERE name = 'NT AUTHORITY\SYSTEM') CREATE LOGIN [NT Authority\SYSTEM] FROM Windows";
$sqlConnection.Open();
if ($sqlCommand.ExecuteNonQuery() -ne 0)
{
    echo "Failed: Step 1";
}

$sqlCommand.CommandText = "IF DB_ID('PADS4FIDS') IS NULL CREATE DATABASE [PADS4FIDS];";
if ($sqlCommand.ExecuteNonQuery() -ne 0)
{
    echo "Failed: Step 2";
}

$sqlCommand.CommandText = "USE PADS4FIDS; EXEC sp_addrolemember 'db_owner', 'NT Author-
ity\SYSTEM'";
if ($sqlCommand.ExecuteNonQuery() -ne 0)
{
    echo "Failed: Step 3";
}

$sqlConnection.Close();
```

## Create the database manually with SQL statements

These steps will guide you through the process of creating the PADS4FIDS database using SQL statements.

**Execute the following SQL statements with the preferred SQL client**

```
USE [Master];
GO

IF NOT EXISTS (SELECT * FROM [master].[sys].[server_principals] WHERE name = 'NT
AUTHORITY\SYSTEM')
BEGIN
CREATE LOGIN [NT Authority\SYSTEM] FROM Windows
END

IF DB_ID('PADS4FIDS') IS NULL
BEGIN
CREATE DATABASE [PADS4FIDS];
END

IF IS_ROLEMEMBER ('db_owner', 'NT Authority\SYSTEM') = 0
BEGIN
GRANT db_owner ON [PADS4FIDS] TO [NT AUTHORITY\SYSTEM]
END
```

# Glossary

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**My Term**

My definition