

# ICS Technology

## PADS Agent Manual

## Welcome to PADS Agent 3.1

Welcome to PADS (Public Area Display System), one of the most advanced and complete professional display software packages that are available today.

This PADS Agent manual describes the possibilities of PADS Agent, the end-user application to monitor the PADS system.



## Starting PADS Agent

PADS Agent is the end-user application for monitoring the PADS system.

### To start the PADS Agent application

1. Click the **Start** button on the Windows taskbar.
2. Select **(All) Programs / Net Display Systems / PADS 3.1 Professional**.
3. Select **Agent**.

or

1. In Windows, go to the folder containing the PADS Agent program files.
2. Double click the **PADSAgent.exe** item.

## Specifying PADS Agent Settings the first time

When the PADS Agent is started for the first time after the installation, a wizard window will automatically popup. (The PADS Agent has to know where the PADS Agent Server is located)

After this wizard is closed, you will be asked to enter a valid username/password. PADS Agent usernames & passwords can be added through the PADS Manager application.

### To add a PADS Agent Server entry afterwards

1. Select Tools / Options from the main menu
2. Click the **Add** button  
Fill in the Display name of the PADS Agent Server, the Computername & portnumber used by the PADS Agent Server
3. Click **OK** to close the options window.

### Remarks

- At least one PADS Agent Server must be specified.  
If the PADS Agent is not able to connect to the PADS System an error message will be displayed and the treeview will not expand.
- The Portnumber specified must be the same as specified at the Agent Server application.  
  
The **AgentServerSettings.exe program** will allow the system administrator to change/verify this portnumber on the PADS Server PC.
- If you have more than one (distributed) PADS System, specifying all the PADS Agent Servers will allow you to monitor all the systems at the same time.  
for each item specified a treeview node is created that can be expanded.
- All changes in settings will be saved to disk (PADSAgent.xml) and re-used the next time the PADS Agent is opened.  
This settings file is located in the PADS Agent directory.

# Logging on when starting PADS Agent

After the splash screen is closed the logon window will pop up. Enter a valid username/password for the Agent user and press OK.

If you want the next time this program is started to be automatically connected with the current userid/password check the automatic log on field.

## Remarks

- If no Agent users are available, use the PADS Manager application to create one or more PADS Agent users.
- When more than one PADS Agent Server is available in your PADS systems be aware that all PADS Servers must have the same userid/password created with the PADS Manager application.
- When you receive a message that the **maximum number of licenses has been reached**, this means that more Agents are active than there are licenses available. If an PADS Agent Application is stopped by using a 'kill' through the task Manager, it is possible that you will have to wait 3 minutes before you can logon again.

## Agent Server Selection

The root items in the treeview (located at the leftmost position of the main PADS Agent Application) identify the available PADS Agents in your environment.

### To show a PADS Agent treeview

1. Double Click the PADS Agent treeview wanted or press the [+]. This will expand the tree and show all the underlying sub-trees and items.  
Sub-trees can be identified by the [+] in front of the image.

### Remark

- Closing a (sub) treeview can be performed by double clicking on the opened item or by clicking on the [-].

## Viewers

All the Agent tasks that can be performed for Viewers are in this section of the Viewers treeview.

### To open the Viewers section treeview

1. If the Viewers section is not visible, first Double Click on the [+] PADS Agent you want to investigate.
2. Double Click the [+] Viewers.  
This will expand the tree and show all the underlying items.
3. Select the item you want to show by Clicking on the treeview item.  
If the item is already opened the focus will be set to this opened window and it will be placed in front of all the opened windows.

## Viewer Status Info

The Viewer Status Info window shows the status of all the Viewers in the current PADS system.

Further detailed information for each Viewer is available when a specific Viewer is selected.

### Toolbar

**The toolbar shows 3 icons which allow the user to filter the Viewers to be shown.**

- **Green**  
All connected Viewers will be shown
- **Red**  
All disconnected Viewers will be shown
- **Green/Red**  
All connected and disconnected Viewers will be shown

### Drop down Viewer selection

It is possible to filter on a specific type Viewer or to show all connections by using the drop down selection list.

When 'all connections' is selected all connections including Administrators are shown. Administrator connections are connections between Application components such as the PADS Layout Server and the PADS Server.

### Print Button

When the detailed information should be printed, use the Print Button in the toolbar to print the content.

### Viewers table

The viewers table located directly under the toolbar shows the connection information for all available (filtered) Viewers.

<b>ViewerName</b>	Name of the Viewer as known in the PADS system.
<b>On Line</b>	<b>True</b> This Viewer is connected <b>False</b> This Viewer is not connected
<b>Last Connected</b>	Date/time timestamp that shows when the Viewer had a connection for the last time with the PADS Server. After a specific interval the Viewer calls the PADS Server to send a keep alive message.
<b>Logon Timestamp</b>	Date/time timestamp the Viewer was started and a connection was made.
<b>Session</b>	Internal session ID of this connection.
<b>Workstation</b>	Workstation name where this Viewer is running. When the Viewer is started it sends it's workstation(computer) name to the Server.
<b>Application</b>	Which application type PADSVIEWER STAFFVIEWER CLUSTERVIEWER AGENTSERVER LAYOUTSERVER

### Detailed Viewer information

The Tabulator at the bottom of the window shows three tabs with detailed information for the selected Viewer in the table.

#### Info for ....

Left panel

<b>Viewer online</b>	<b>Yes</b> The Viewer is online <b>No</b> The Viewer is not connected
<b>Presentation active</b>	<b>Yes</b> There is a presentation running. <b>No</b> There is no presentation running.
<b>External data used</b>	When a presentation is active: <b>Yes</b> The presentation running uses data from external dataproviders. <b>No</b> The presentation running uses no data from external dataproviders.
<b>Viewer started on</b>	Timestamp when the Viewer was started
<b>Viewer stopped at</b>	Timestamp when the Viewer was stopped. When the Viewer PC is rebooted and the Viewer is not started, this information c
<b>Error message</b>	Shows if an error message is available

Right panel

<b>Viewer IP Address</b>	IP address of this Viewer
<b>Viewer Computername</b>	Computername of this Viewer
<b>Last Server connection</b>	last connection timestamp with the PADS Server.

### Refresh button

Refreshes the Raw data when clicked.

### Presentation Info

The Presentation Info shows detailed information of the currently running presentation if available

<b>Presentation active</b>	<b>Yes</b> There is a presentation active <b>No</b> The is no presentation active
<b>Presentation started at</b>	Timestamp the presentation was started.
<b>Scheduled until</b>	Timestamp that identifies until what date/time this presentation is scheduled
<b>Presentation Code</b>	Code of the active presentation
<b>Schedule Code</b>	Schedule code of the active presentation

### Data Connection Info

the Data Connection info shows detailed information about dataproviders used by the running presentation. If no dataproviders are used for this presentation it will be disabled.

#### Shown Dataproviders Info

First Click on the dataprovider at the left panel to select the dataprovider you want to show.

At the right side the detailed information of this dataprovider will be shown. The first tab (Provider Info) shows information about the retrieval process of the data and the second tab (data) shows the raw datatable which includes all needed information.

<b>Data Available</b>	<b>Yes</b> There is data available <b>No</b> The is no data available
<b>Error message</b>	Indicates why there is no data available.
<b>Data Provider</b>	Type provider (MS Access, SQL,..)
<b>Data Type</b>	Query, Table etc..
<b>Data Source</b>	Name of the Query, table etc..
<b>Data Link</b>	Link to the Database.
<b>Parameters</b>	Parameters used
<b>Query Execution Time</b>	Number of milliseconds used to execute this query
<b>Data Read Interval(ms)</b>	Interval used between two database calls
<b>Data Last Changed</b>	Timestamp a change in the database content occurred
<b>Data Filter Used</b>	Is the data filtered. When using interactive Viewers it is possible to use a filter
<b>Data Sort Used</b>	Is the data sorted. When using interactive Viewers it is possible to use a sort filter
<b>Data Stored in Cache</b>	<b>Yes</b> The data is stored in cache <b>No</b> The data is not stored in cache

### Show Data

Shows the raw database as read.

### Remarks

- The Viewers table content is automatically updated with the latest information available.
- The interval for automatic refresh of the status info can be adjusted by setting the status info refresh rate in the **Tools / Options window**
- The Status Info window it's size can be changed by using the right bottom side of the window. The panels will automatically re-scale to the new positions.

## Show disconnected Viewers info

When you want to show a list of all disconnected Viewers do the following.

### Step 1

**Click** on the **Viewers / Status Info** entry in the treeview at the left of the Agent main window.

### Step 2

Press the **Red** button in the status info Toolbar.

All disconnected Viewers will be shown in the list.

### Remarks

- When changes appear like Viewers that were disconnected that got a connection back occurs, the Viewers table is automatically adjusted with the new settings.
- The interval at which a the new Status Info is gathered from the PADS System can be changed by using the Tools Options form, tab Timers.

## Show connected Viewers info

When you want to show a list of all connected Viewers do the following.

### Step 1

**Click** on the **Viewers / Status Info** entry in the treeview at the left of the Agent main window.

### Step 2

Press the **Green** button in the status info Toolbar.

All connected Viewers will be shown in the list.

## Remarks

- When changes appear like Viewers that were disconnected that got a connection back occurs, the Viewers table is automatically adjusted with the new settings.
- The interval at which a the new Status Info is gathered from the PADS System can be changed by using the Tools Options form, tab Timers.

## Refresh Viewer dataprovider Status info

When you want to refresh data shown from a specific dataprovider in the Status Info window do the following.

### Step 1

Press the Refresh button located above the list with available data providers at the Data Connection tab

## remarks

- If there are no data providers available for this presentation, the data provider list will be empty and the Refresh disabled.
- If you select a data provider from the list with data providers at the Data Connection tab, the data will also be refreshed.
- The data is not automatically refreshed because this could cause problems when investigating current data row fields.

## Display Staff Viewers Status info

When you want to show a list of Staff Viewers do the following.

### Step 1

**Click** on the **Viewers / Status Info** entry in the treeview at the left of the Agent main window.

### Step 2

Select Staff Viewers from the drop down list in the Toolbar.

## Display Cluster Viewer Status info

When you want to show a list of Cluster Viewers do the following.

### Step 1

**Click** on the **Viewers / Status Info** entry in the treeview at the left of the Agent main window.

### Step 2

Select Cluster Viewers from the drop down list in the Toolbar.

## Print the Viewers table

When the Viewers table contents should be printed press the Print button in the Toolbar of the Status Info window.

### Remark

- It is also possible to use the Print button in the main window Toolbar.
- When the text does not fit the page, choose a smaller font or change from portrait to landscape.

## Show Viewer external data info

When you want to show external data used by a specific Viewer do the following.

### Step 1

**Click** on the **Viewers / Status Info** entry in the treeview at the left of the Agent main window.

### Step 2

Select the Viewer in the list. if the Viewer is not shown, check if the current mode shows all Viewers (connected/disconnected)

### Step 3

Press the Data Connection Tab at the bottom to show information about external data used by this Viewer (Empty when no external data is used)

### Remarks

- When a Data Server is used to obtain external data, it is also possible to have a look at the Data Server. Select Servers Info / Data Servers Info

## Viewer Log Files

The Viewer Log Files window is capable of showing log files from all Viewers in the current PADS system.

### Toolbar

#### Split window

When using a split window the user is able to show two log files. This can be of use when you want to inspect two different log files for changes.

By clicking on the split window icon in the toolbar the split window will convert to a single window or from a single window to a split window.

#### Automatic refresh

It is possible to update the log windows with the latest log info automatically by enabling the toolbar automatic refresh toggle buttons. When this button is pressed, it will automatically update the log file window when new entries occur at the viewer.

## Print

The Log window that has the focus will be printed when the Print button is pressed.

## Viewer Panel(s)

The panel at the left shows the list with available viewers in the PADS system. When the split mode is enabled you will see 2 panels with (the same) viewers at the left.

Select a viewer by clicking on a viewer name in the list.

## Log File Window

When a Viewer is selected the PADS Agent will try to retrieve the Log File from the Viewer and place the log in the panel at the right.

## Remarks

- When the Viewer is not reachable for example when a network failure occurs, an error message will be displayed and the error text will be placed in the log file panel at the right.
- The Panel at the left with the viewernames can be enlarged by clicking between the left and right panel when the mousecursor changes to a double arrow, hold it move it to the left or right and release it. the new setting will be saved when you close the Agent Application.
- The Log Files window it's size can be changed by using the right bottom side of the window. The panels will automatically re-scale to the new positions.

## Inspecting Viewer Log Files

When you want to inspect a Viewer log file, click on the Viewers / Log Files entry in the treeview at the left of the Agent main window.

Next select the Viewer you want to inspect. The log file will be retrieved from this Viewer and placed in the right panel.

[What can be found in the log file?](#)

## Viewer Log File Content

A Viewer Log File has the following structure:

**[Type] [Date] [Time] [Description]**

**[Type]** describes the type message which can be Info, Warning or Error.

**[Date]** and **[Time]** contain the timestamp this message was generated.

**[Description]** tells what the message is.

The Error type messages are mostly created due to network errors occurring or library files that can not be found.

### Example

```
Info 02-15-2005 15:35:31 Viewer viewer1 stopped.
Info 02-15-2005 15:35:31 Download library files component stopped.
Info 02-15-2005 15:26:07 Viewer Presentation 'Presentation1' started.
Info 02-15-2005 15:26:05 Viewer New schedule info arrived.
Info 02-15-2005 14:48:12 Viewer Currently no presentations scheduled.
Info 02-15-2005 14:48:07 Viewer Connection with PADSServer (re)established.
Info 02-15-2005 14:48:06 Download library files component started.
Info 02-15-2005 14:48:06 Viewer PADS Agent Controller initialized for this Viewer.
Info 02-15-2005 14:48:05 Viewer viewer1 3.0.1867.23148 started
```

When the Viewer is started the Viewer .... started message is send to the log indicating the Viewer was started at that time.

Next the Agent Controller is initialised. When the Agent Controller initialize fails, no connection with the PADS Agent can be made with this specific Viewer.

Next the Download library files component is started which will synchronize the library files with the PADS Server.

"Viewer New schedule info arrived." means new schedule information is available for this Viewer. This could be info for the current running schedule or for schedules in the future. When this message is followed by the Viewer Presentation '.....' started the current one is stopped and replaced by the new one.

### Remarks

- **New messages will be added to the Log at the top.** So the newest message is on the top of the log.
- **The Viewer Log file has a limited size which is by default 64 Kb.** This can be changed by adjusting the size in the PADSViewer.XML file located at the Viewer program directory on the Viewer PC. When the size becomes to large, the oldest message will be removed.

## Automatic Refresh of Log File content

When you want to automatically get the latest log information, enable this refresh by pushing the Automatic Refresh button in the toolbar of the Log Files window.

### Remarks

- The interval at which the log file information is retrieved can be changed by using the Tools / Options form, item Timers

## Compare 2 Viewer Log Files

When you want to compare 2 Viewer log files, click on the Viewers / Log Files entry in the treeview at the left of the Agent main window.

### Step 1

Push the Split window toolbar button if not done so before to get two panels under each other.

### Step 2

In the top left panel select the first Viewer you want to compare.

### Step 3

In the Bottom left panel select the second Viewer you want to compare with the one at the top.

Now you are able to scroll in both panels located at the right underneath each other to find out the differences.

## Search Viewer version in the Log File

When a Viewer is started, a message is added to the Log File that contains the version number of the Viewer.

```
Info 02-15-2005 14:48:05 Viewer viewer1 3.0.1867.23148 started
```

## Print the Log File Content

When the Log File contents should be printed there are two possibilities for the current window view.

### Single window

Press the Print button in the Toolbar.

### Splitter window

Click on the Log File window you want to be printed to set the focus and press the print button in the Toolbar.

### Remark

- It is also possible to use the Print button in the main window Toolbar.
- When the text does not fit the page, choose a smaller font or change from portrait to landscape.

## PADS Version Info

The PADS Version Info window is capable of showing version info for all Viewers in the current PADS system.

### Get Info

When pressing this button Version information will be gathered from all selected Viewers

### List with Viewers

Shows the complete list with Viewers in the current PADS system.

Viewer can be selected by using the Shift and Ctrl key.

### Select all

When checked all the Viewers in the list above the Select All are selected

### Top right Viewer info panel

When the Get Info button is pressed, a table with version information for each Viewer is created in the panel at the right.

Table structure

<b>ViewerName</b>	Name of the Viewer as known in the PADS system.
<b>Version</b>	X.X.X Version number of the Viewer application as stored in the Vwr.exe file
<b>Size</b>	Size in bytes of the Viewer application Vwr.exe
<b>Created</b>	Date/time timestamp the Viewer application Vwr.exe was created.
<b>Last Modified</b>	Date/time timestamp the Viewer application Vwr.exe was last modified.

### Detailed Information

Shows detailed information from the selected Viewer in the upper right panel.

The detailed information contains information for all available files in the current program directory.

Table structure

<b>Filename</b>	Name of the File.
<b>Version</b>	Version number of the File if available.
<b>Size</b>	Size in bytes of the File
<b>Created</b>	Date/time timestamp the File was created.
<b>Last Modified</b>	Date/time timestamp the File was last modified.

## Verify PADS Viewer versions

When you want to verify PADS Viewer versions installed, click on the Viewers / PADS Version Info entry in the treeview at the left of the Agent main window.

### Step 1

Select the Viewers that must be verified. select the Check All checkbox if all Viewers need to be checked.

### Step 2

Press the Get Info button to start the retrieval process. This could take some time when a lot of Viewers are

selected.

### Step 3

The table besides the Viewers list is now filled in with all the Viewers and their corresponding versions found. If the Viewer is not found due to for example network failures, 'Not Found' is specified in the Version column.

### Step 4

For more detailed info for a specific Viewer in the table shown, press the data row for the Viewer needed.

At the bottom in the detailed information section, all files that are available in the current program folder will be displayed.

### Remarks

- By using the Column drag functionality at the Viewer table, it is possible to sort the Viewers by version. Default they are sorted by Viewername.
- The selection of Viewers that must be made, before receiving this version info is implemented this way because it would take a while if you have a large system where a large amount of Viewers is available and you would like to know for one Viewer what Version is available.

## Show Download Content Progress Info

When you want to show the Download Content Progress available on a specific PADS Viewer, click on the Viewers / Download Content Progress Info entry in the treeview at the left of the Agent main window.

### Step 1

Select the Viewer from the list of all Viewers displayed by clicking on the item.

In the right panel the Download Content Progress information of the selected Viewer is displayed.

The panel shows the filename, percentage downloaded of the total amount of bytes and a message if some error occurred

### Remarks

- When the Print button is pressed and the split window mode is turned on, the focused panel will be printed.

## Viewer Download Library Files Info

The Viewer Download Info window shows all the library files available of the selected Viewer in the current PADS system.

Each Viewer is capable of synchronising Library files such as videos and images with the layout Server. This way the Viewer will prevent the system from using network resources to show videos which could overload your network environment.

## Toolbar

### Split window

When using a split window the user is able to show two library files panels. This can be of use when you want to inspect two different Viewers to find out if any differences occur between these two.

By clicking on the split window icon in the toolbar the split window will convert to a single window or from a single window to a split window.

### Automatic refresh

It is possible to update the Library File windows with the latest info automatically by enabling the toolbar automatic refresh toggle buttons. When this button is pressed, it will automatically update the Library files window when new entries occur.

### Print

The Log window that has the focus will be printed when the Print button is pressed.

The Viewer list at the top contains two Tabulators. One for Viewers and one for Servers.

## Viewers Tab

Select the Viewer for which the Download Library files must be displayed.

The Filename displayed is the name as saved at the Viewer.

## Servers Tab

Select the Server for which the Download Library files must be displayed.

The Filename displayed is the name as saved at the Server.

## PADS Server

The PADS Server is used as Download Library Component when this PADS Server is a Replicated Server, it is also possible to show the download files synchronised with the Replication Server.

## Layout Servers

The layout Servers in the current PADS System contain all the Download Library Files info which are available for the Viewers. So if a Viewer downloads a file from the Server it actually will get it from the layout Server.

It is possible that there are more than one Layout Servers in your local PADS Systems. these have been specified through the Tools / Options form in the PADS Agent.

## Colors

When using split window mode, and you have selected an item in both panels at the top and the bottom, the PADS Agent will verify the differences between these two and show this by changing the background color of the row when the item does not exist in the other window.

So if an file in the top window does not occur in the bottom, it will change it background row color.

### Remarks

- When using different library files root paths, the Server may show a different path from that on the Viewer.
- When the background of the displayed file is changed from white to a different color (by default light red), this file does not exist in the other window (split mode turned on)
- the background row color can be changed through the Tools / Options form, item Colors.

## Show Download Content Files for Viewer

When you want to show the Download Content Files available on a specific PADS Viewer, click on the Viewers / Download Content Files info entry in the treeview at the left of the Agent main window.

### Step 1

Select the Viewer from the list of all Viewers displayed by clicking on the item.

In the right panel the Download Files content of the selected Viewer is displayed.

### Remarks

- When using the Split window option, differences between the top and bottom panel are shown with a different background color indicating that a certain file does not exist on the other panel.
- When the Print button is pressed and the split window mode is turned on, the focused panel will be printed.
- When selecting a Layout Server at the top panel, and a Viewer at the bottom panel you are able to verify if both the Server and Viewer have the same Content Files available.
- Differences in directory structure may be visible when verifying a Server with a Viewer because it is possible to specify a different (root) location for both the Server and Viewer.

## Show Download Content files for Layout Server

When you want to show the Download Content Files available on a specific PADS Layout Server, click on the Viewers / Download Content Files info entry in the treeview at the left of the Agent main window.

### Step 1

Select the Server tab from the top left panel.

### Step 2

Select the Server / Layout Server from which the Download Content Files info must be shown.

In most situations only one item will occur.

When using a Replicated Server which is synchronised with another PADS Server, click on the PADS Server item.

In the right panel the Download Files content of the selected Layout Server is displayed.

### Remarks

- When using the Split window option, differences between the top and bottom panel are shown with a different background color indicating that a certain file does not exist on the other panel.
- When the Print button is pressed and the split window mode is turned on, the focused panel will be printed.
- When selecting a Layout Server at the top panel, and a Viewer at the bottom panel you are able to verify if both the Server and Viewer have the same Library Files available.
- Differences in directory structure may be visible when verifying a Server with a Viewer because it is possible to specify a different (root) location for both the Server and Viewer.

## Show Download Content Files for Replicated Server

When you want to show the Download Content Files available on a specific replicated PADS Server, click on the Viewers / Download Content Files info entry in the treeview at the left of the Agent main window.

A Replicated PADS Server is a PADS Server that is synchronised with a different (Central) PADS Server. Besides the database it is also possible to synchronize the download Content Files.

### Step 1

Select the Server tab from the top left panel.

### Step 2

Select the PADS Server from which the Download Content Files info must be shown.

In the right panel the Download Files content of the selected PADS Server is displayed.

### Remarks

- When using the Split window option, differences between the top and bottom panel are shown with a different background color indicating that a certain file does not exist on the other panel.

- When the Print button is pressed and the split window mode is turned on, the focused panel will be printed.
- When selecting a PADS Server at the top panel, and a Viewer at the bottom panel you are able to verify if both the Server and Viewer have the same Content Files available.
- Differences in directory structure may be visible when verifying a Server with a Viewer because it is possible to specify a different (root) location for both the Server and Viewer.

## Viewer Screen Captures

The Screen Captures window is capable of showing screen shots for all Viewers in the current PADS system.

The screen shot displayed contains the whole screen of the Viewer. If the Viewer is running in a Window which does not contain the whole screen, the Viewer desktop will be included also.

### Toolbar

#### Full size view

When using full size view only one viewer screen can be displayed.

#### Thumbnail view

When using thumbnail view more viewers can be selected from a list and will be displayed.

#### Auto refresh

When the auto refresh button is pushed, the screen capture is refreshed with a certain interval.

This interval can be adjusted by using the Tools / Options form, item Timers.

#### Print

The screen capture window will be printed when the Print button is pressed.

When Thumbnail view is selected the images are all together scaled onto one page and when full size view is selected the image is scaled onto the page.

### Viewer list

In the left panel are all the available Viewers displayed.

Select an item by clicking on the Viewer name to show a screen capture.

When in Thumbnail view mode more than one Viewer screen capture can be displayed at the same time. Check the checkbox in front of the Viewer name to show the screen capture.

### Image panel

In the right panel the Viewer screen capture will be displayed.

When in Full size mode the image panel shows the screen capture of the selected Viewer at real size.

When in Thumbnail view mode, all the screen captures from the selected Viewers will be displayed as thumbnails.

### Remarks

- The interval for automatic refresh of the screen captures can be adjusted by setting the screen capture refresh rate in the **Tools / Options window**
- The Screen capture window it's size can be changed by using the right bottom side of the window. The panels will automatically re-scale to the new positions.

## Capturing a Viewer Screen

When you want to show the screen from a Viewer displayed now, click on the Viewers / Screen Captures entry in the treeview at the left of the Agent main window.

### Step 1

Select the Viewer from which the screen must be displayed

In the right panel the Screen capture is displayed

### Remarks

- Push the automatic refresh button to automatically refresh the items after a specific interval which is by default 5 seconds and can be changed through the tools / Options form.

## Capture more Viewer Screens

When you want to show screens from a Viewer displayed now, click on the Viewers / Screen Captures entry in the treeview at the left of the Agent main window.

### Step 1

Select the Thumbnail View mode by clicking on the Thumbnail icon in the toolbar.

### Step 2

Select the Viewers which must be shown by checking the items.

In the right panel the Screen captures will be displayed.

## Remarks

- Push the automatic refresh button to automatically refresh the items after a specific interval which is by default 5 seconds and can be changed through the tools / Options form.

## Viewer Program Settings

The Viewer Program Settings window allows the user to show/edit Viewer program settings for the current PADS system.

### Toolbar

#### Print

Prints the content of the properties table.

### Edit Viewer properties

#### Edit properties for:

Select the Viewer for which the settings must be changed.

#### Changes apply to:

Select Viewers for which the changed settings must be applied.  
This list always includes the selected Viewer from the 'Edit properties for' list.

#### Edit properties button

Press the edit button to show/edit properties for the selected Viewer.

#### Select all

Selects all Viewers in the bottom list.

### Show all Viewer properties table

#### Start loading button

Start loading all the properties for all available Viewers and put these into a table.

#### Table

Shows all the properties for the available Viewers in the current PADS System.

## Change Viewer settings

When you want to show/edit Viewer program settings, click on the Viewers / Program Settings entry in the treeview at the left of the Agent main window.

**Step 1**

Select the Viewer for which you want to show/edit the properties from the top list.

**Step 2**

Click the Edit Properties button to show the Viewer properties form.

**Step 3**

Press OK to change the Properties.

**Remarks**

- When editing the properties from one Viewer that only are applied to this Viewer, you are able to adjust all the settings including the ViewerName.

If editing properties that must be applied to more Viewers, The ViewerName cannot be edited because this would overwrite all Viewers with the same Viewer name.

## Change settings for multiple Viewers

When you want to show/edit Viewer program settings and apply these to more Viewers at the same time, click on the Viewers / Program Settings entry in the treeview at the left of the Agent main window.

**Step 1**

Select the Viewer for which you want to show/edit the properties from the top list.

**Step 2**

Select the Viewers that need to be updated from the bottom list.

All changes made to the settings from the selected Viewer will be applied to the selected Viewers.

**Step 3**

Click the Edit Properties button to show the Viewer properties form.

**Step 4**

Press OK to change the Properties.

**Remarks**

- When editing the properties from one Viewer that only are applied to this Viewer, you are able to adjust all the settings including the Viewername.

If editing properties that must be applied to more Viewers, The Viewername cannot be edited because this would overwrite all Viewers with the same Viewer name.

- The selection in the bottom list for all Viewers that need to be updated, always includes the Viewer selected in the top list (the one that is edited).
- Viewers will be updated with only the changed settings.

## Viewer Event Log

The Viewer Event Log window is capable of showing Viewer event logs in the current PADS system.

### Viewer list

Contains a list with all available Viewers

Select the Viewer for which the Application event log must be retrieved.

### Right panel

Table with all Application event log entries.

<b>Line</b>	Line number of the message
<b>Type</b>	Type message <b>Info</b> <b>Warning</b> <b>Error</b>
<b>Source</b>	Which component created this message
<b>Timestamp</b>	When was the message created
<b>Message</b>	Message

### Remarks

- Be aware that normal Viewer messages are stored into a log file which can be shown also.
- Retrieval of event log messages can take some time when the amount of messages available increases.

## Display Viewer event log

When you want to display the Viewer Application event log, click on the Viewers / Event log entry in the treeview at the left of the Agent main window.

### Step 1

Select the Viewer from the list of viewers for which the Application event log must be displayed

The event log information is gathered from the selected Viewer PC.  
With the logbook group it is possible to select a certain logbook such as the application or system log.

### Remarks

- Be aware that normal Viewer messages are stored into a log file which can be shown also.
- Retrieval of event log messages can take some time when the amount of messages available increases.
- Press the Print button in the general Toolbar to print the content of the Event log table.

## Viewer Fonts installed

The Viewer Fonts installed window is capable of showing which fonts are installed on a specific Viewer in the current PADS system.

### Viewer list

Contains a list with all available Viewers

Select the Viewer for which the fonts must be retrieved.

### Right panel

Table with all the fonts available on the selected Viewer.

<b>Font</b>	Font name
<b>Example</b>	Font displayed in the Font style if available

## Display Viewer fonts

When you want to display the fonts available on a certain Viewer, click on the Viewers / Fonts installed entry in the treeview at the left of the Agent main window.

### Step 1

Select the Viewer from the list of viewers for which the fonts must be displayed.

The fonts will be displayed in the panel at the right side.

### Remarks

- Press the Print button in the general Toolbar to print the content of the fonts table.

## Viewer Process Info

The Viewer Process Info window is capable of showing/changing the running processes on a Viewer PC in the current PADS system.

## Toolbar

### Split window

When using a split window the user is able to show two process info panels. This can be of use when you want to inspect two different Viewers for differences.

By clicking on the split window icon in the toolbar the split window will convert to a single window or from a single window to a split window.

### Automatic refresh

It is possible to update the process panel with the latest process info automatically by enabling the toolbar automatic refresh toggle button. When this button is pressed, it will automatically update the process panel when entries change at the Viewer.

### Print

The process panel that has the focus will be printed when the Print button is pressed.

## Viewer List

Contains a list with all the Viewers available in the current PADS System.

## Process panel (at the right)

Contains Process information from the selected Viewer.

<b>Process ID</b>	Process id of this item
<b>Processname</b>	Process name
<b>Start Time</b>	Timestamp the process was started
<b>Handles</b>	Number of handles used
<b>Threads</b>	Number of threads used
<b>CPU Time</b>	Time used by the process in HH:MM:SS.fff (fff = 1/1000 of a millisecond)
<b>User Objects</b>	User Objects
<b>Memory Used</b>	Memory used by this process in bytes
<b>Virtual Memory</b>	Virtual memory used by this process in bytes
<b>Filename</b>	Filename of this process that was started
<b>Paged memory used</b>	Paged memory used by this process in bytes
<b>Peak paged memory used</b>	Highest paged memory used by this process in bytes
<b>Peak virtual memory used</b>	Highest virtual memory used by this process in bytes
<b>Private memory used</b>	Private memory used by this process in bytes
<b>Privileged CPU time (ms)</b>	privileged CPU time used in seconds
<b>CPU(sec)</b>	CPU time used in seconds
<b>Responding</b>	Is the process responding
<b>Windows Service</b>	Is the process a windows service
<b>Service Running</b>	When the process is a windows service, is the service running?

## Stop Button

Stop the selected item from the process table on the Viewer

#### **Kill Button**

Kill the selected item from the process table on the Viewer

#### **Start Service Button**

Start a service on the Viewer

#### **Start Process Button**

Start a process on the Viewer

### **Remarks**

- The PADSAgentControl entry is disabled in the table. This control is used by the Agent to Control the Viewer PC and can not be stopped.
- The **difference between stop and kill** is that when using stop the process is tried to close normally. When the process does not respond, you could try to kill it.
- Be aware that stopping operating system processes could cause the PC to stop working properly.

## **Start a Viewer Process**

When you want to start a Viewer process, click on the Viewers / Process Info entry in the treeview at the left of the Agent main window.

### **Step 1**

Select the Viewer to retrieve the processes from by clicking on the item in the Viewer list.

All processes will be retrieved from the Viewer.

### **Step 2**

Click on the Start button to open a input window where the filename of the process to start can be entered.

Be aware that you specify a filename & path that exists on the Viewer PC.

### **Step 3**

Click on the OK button to start the process on the selected Viewer.

### **Remarks**

- The PADSAgentControl entry is disabled in the table. This control is used by the Agent to Control the Viewer PC and can not be stopped.

## Stop a Viewer process

When you want to stop a Viewer process, click on the Viewers / Process Info entry in the treeview at the left of the Agent main window.

### Step 1

Select the Viewer to retrieve the processes from by clicking on the item in the Viewer list.

All processes will be retrieved from the Viewer.

### Step 2

Select the process which must be stopped by clicking on the row in the process table containing the process.

### Step 3

Click on the Stop button to stop the process normally.

When the process does not stop normally, it is possible to kill the process by using the Kill button instead.

The difference between stop and kill is that when using stop, the process is ended in the normal way releasing memory. When using Kill the process is immediately terminated by the operating system without having the change to releasing memory etc..

### Remarks

- The **difference between stop and kill** is that when using stop the process is tried to close normally. When the process does not respond, you could try to kill it.
- Be aware that stopping operating system processes could cause the PC to stop working properly.
- The PADSAgentControl entry is disabled in the table.  
This control is used by the Agent to Control the Viewer PC and can not be stopped.

## Start a Viewer Service

When you want to start a Viewer (program) service, click on the Viewers / Process Info entry in the treeview at the left of the Agent main window.

### Step 1

Select the Viewer to retrieve the processes from by clicking on the item in the Viewer list.

All processes will be retrieved from the Viewer.

### Step 2

Select the service process which must be started by clicking on the row in the process table containing the process.

### Step 3

Click on the Start service button to start the process.

### Remarks

- A windows service can not be killed.
- Be aware that stopping operating system processes could cause the PC to stop working properly.
- The PADSAgentControl entry is disabled in the table.  
This control is used by the Agent to Control the Viewer PC and can not be stopped.

## Stop a Viewer Service

When you want to stop a Viewer (program) service, click on the Viewers / Process Info entry in the treeview at the left of the Agent main window.

### Step 1

Select the Viewer to retrieve the processes from by clicking on the item in the Viewer list.

All processes will be retrieved from the Viewer.

### Step 2

Select the service process which must be stopped by clicking on the row in the process table containing the process.

### Step 3

Click on the Stop button to stop the process normally.

### Remarks

- A windows service can not be killed.
- Be aware that stopping operating system processes could cause the PC to stop working properly.
- The PADSAgentControl entry is disabled in the table.  
This control is used by the Agent to Control the Viewer PC and can not be stopped.

## Viewer Hardware Info

The Viewer hardware Info window is capable of showing memory and harddisk usage for all Viewers in the current PADS system.

**Viewer List**

Contains a list with all the available Viewers in the current PADS System.

**Get Info button**

Retrieve memory and harddisk usage info for all the selected Viewers

**Select All**

Selects all Viewers in the Viewer list

**Right panel**

Shows the information gathered from all the selected Viewers

<b>Viewer</b>	Name of the Viewer
<b>Memory used</b>	Memory used on this PC in %
<b>Diskspace used</b>	Diskspace used in %
<b>Memory used by Viewer</b>	Memory used by the Viewer process
<b>Max memory used by Viewer</b>	Highest memory peak used by the Viewer process
<b>Total memory used</b>	Memory used on this PC
<b>Total memory available</b>	Total memory available on this PC
<b>Drive name</b>	Name of the first harddisk
<b>Size of diskdrive</b>	Size of the first harddisk
<b>Free diskdrive space</b>	Free diskspace of the first harddisk
<b>CPU time used by Viewer(ms)</b>	CPU used by the Viewer process in milliseconds
<b>Error message</b>	Error message if an error occurred during retrieval of information

**Viewer memory usage**

When you want to view memory/disk usage of a Viewer process, click on the Viewers / Hardware Info entry in the treeview at the left of the Agent main window.

**Step 1**

Select the Viewer(s) for which the memory/disk usage info is needed by clicking on the items in the Viewer list. use the Shift & Ctrl key for extended selections.

**Step 2**

Click on the Get Info button to retrieve the information from all the selected Viewers.

**Remarks**

- A task schedule can be created that checks the memory usage and is capable of rebooting a Viewer if the free memory resources are below a certain value.

## Viewer free harddisk space

When you want to view memory/disk usage of a Viewer process, click on the Viewers / Hardware Info entry in the treeview at the left of the Agent main window.

### Step 1

Select the Viewer(s) for which the memory/disk usage info is needed by clicking on the items in the Viewer list. Use the Shift & Ctrl key for extended selections.

### Step 2

Click on the Get Info button to retrieve the information from all the selected Viewers.

### Remarks

- A task schedule can be created that checks the free harddisk space and is capable of performing an action when the resources are below a certain value.

## Viewer Reboot Wizard

The Viewer reboot Wizard window is capable of rebooting one or more Viewers in the current PADS system.

### Intro panel

#### Next panel (Select Viewers)

##### Select Viewers

Select the Viewers that need to be rebooted.

##### Select all checkbox

Selects all Viewers.

#### Next panel (Date & Time)

##### Reboot the selected Viewers now (once)

reboot the Viewer selection now.

##### Periodically Viewer reboot

Reboot the Viewer selection based on date/time settings.

**Every day**

Reboot the Viewer selection every day.

**Every week on**

Reboot the Viewer selection every week at a specific day.

**Time**

At what time must the reboot take place.

**Next panel (Finish)**

Shows a overview of the choices made.

**Remarks**

- Use the Task Scheduler to observe the process of Viewer reboot.
- Reboot 'now' option will perform the reboot within 1 minute from now.
- Be aware that a reboot is visible at a public screen.

**Reboot a Viewer immediately**

When you want to reboot a Viewer PC, click on the Viewers / Wizards / Reboot Wizard entry in the treeview at the left of the Agent main window.

**Step 1**

Click on the Next button to go to the next page.

**Step 2**

Select the Viewer(s) from the list of viewers which must be rebooted.

Click on the Next button to go to the next page.

**Step 2**

Select now

Click on the Next button to go to the next page.

**Step 3**

Click on Finish

**Remarks**

- Use the Task Scheduler to observe the process of Viewer reboot.
- Reboot 'now' option will perform the reboot within 1 minute from now.  
The task scheduler at the Agent Server checks every minute for new tasks to be performed. So it is possible that a task that should be performed directly, will wait for some seconds to be started.
- Be aware that a reboot is visible at a public screen.

## Schedule a Viewer reboot

When you want to schedule a Viewer PC reboot, click on the Viewers / Wizards / Reboot wizard entry in the treeview at the left of the Agent main window.

### Step 1

Click on the Next button to go to the next page.

### Step 2

Select the Viewer(s) from the list of viewers which must be rebooted.

Click on the Next button to go to the next page.

### Step 2

Select Every day

Specify a time at which to reboot the Viewer PC's

Click on the Next button to go to the next page.

### Step 3

Click on Finish

### Remarks

- The Viewer reboot will be performed on each interval until the schedule is removed from the task scheduler.
- Use the Task Scheduler to observe the process of Viewer reboot.
- Reboot 'now' option will perform the reboot within 1 minute from now.  
The task scheduler at the Agent Server checks every minute for new tasks to be performed. So it is possible that a task that should be performed directly, will wait for some seconds to be started.
- Be aware that a reboot is visible at a public screen.

## Viewer Online Verification Wizard

The Viewer Online Verification Wizard window is capable of verifying if Viewers are online in the current PADS system. If not an action can be performed.

### Intro panel

### Next panel (Select Viewers)

#### Select Viewers

Select the Viewers that need to be rebooted.

#### Select all checkbox

Selects all Viewers.

### Next panel (Interval)

Specify the interval in minutes after which the verification is performed.

### Next panel (Action)

#### Send a message (Mail or SMS)

Send a message when the Viewer is not online

#### Add

Add a mail or SMS address

#### Remove

Remove the selected address

#### Limit the number of characters send

Limit the number of characters send. In cases where a sms must be send that has a max. amount of characters.

#### Send a Message Queue(MSMQ) message

Send a MSMQ message when the Viewer is not online

#### Add

Add a MSMQ address

#### Remove

Remove the selected MSMQ address

### Reboot the Viewer that stopped responding

Reboot the Viewer when it is not online

### Next panel (Finish)

Shows a overview with all selected choices

## Verify if a Viewer is Online

When you want to verify if a Viewer is online, click on the Viewers / Wizards / Online Verification Wizard entry in the treeview at the left of the Agent main window.

### Step 1

Click on the Next button to go to the next page.

### Step 2

Select the Viewer(s) from the list of viewers which must be verified.

Click on the Next button to go to the next page.

### Step 2

Specify the interval after which the verification must be started.

When you specify 10 minutes, this check will be performed every +10 minutes from now. So if started at 10 o'clock, 10:10, 10:20, 10:30, 10:40 etc..

Click on the Next button to go to the next page.

### Step 3

Specify if you want to take an action when a Viewer is off-line.

for instance it is possible to send a message to an person through email or MSMQ. It is also possible to reboot the Viewer PC.

Click on the Next button to go to the next page.

### Step 4

Click on Finish

### Remarks

- Use the Task Scheduler to observe the process of Viewer verification.

- The task scheduler at the Agent Server checks every minute for new tasks to be performed. So it is possible that a task that should be performed directly, will wait for some seconds to be started.
- Be aware that a reboot is visible at a public screen.
- At the PADS Server PC, the Computer in your network where the Mail Server is installed must be specified. use the AgentServerSettings program to adjust this setting.

## Viewer Computer Check Wizard

The Viewer Computer Check Wizard window is capable of verifying if Viewers have too much memory used, or are out of harddisk space in the current PADS system.

### Intro panel

### Next panel (Select Viewers)

#### Select Viewers

Select the Viewers that need to be rebooted.

#### Select all checkbox

Selects all Viewers.

### Next panel (Time Selection)

#### Check the selected Viewers now (once)

Check the Viewers now

#### Periodically Viewer check

##### Time

Specify at which time the check must be performed

##### Interval in Days

Specify the interval in days after which the next check is performed

#### Warning levels

Specify the warning level maximum values in %.  
When the calculated values are above this % level, an action can be performed.

### Next panel (Action)

#### Send a message (Mail or SMS)

Send a message when one from the warning levels is reached

**Add**

Add a mail or SMS address

**Remove**

Remove the selected address

**Limit the number of characters send**

Limit the number of characters send. In cases where a sms must be send that has a max. amount of characters.

**Send a Message Queue(MSMQ) message**

Send a MSMQ message when one from the warning levels is reached

**Add**

Add a MSMQ address

**Remove**

Remove the selected MSMQ address

**Reboot the Viewer when this situation occurs**

Reboot the Viewer when one from the warning levels is reached

**Next panel (Finish)**

Shows a overview with all selected choices

## Verify the Viewers memory usage

When you want to verify if a Viewer is consuming all the memory, click on the Viewers / Wizards / Computer Check Wizard entry in the treeview at the left of the Agent main window.

**Step 1**

Click on the Next button to go to the next page.

**Step 2**

Select the Viewer(s) from the list of viewers which must be checked.

Click on the Next button to go to the next page.

**Step 3**

Check the Check the selected Viewer(s) now option.

This will check the Viewers immediately after the wizard is finished.

#### Step 4

Set the warning level of the memory at 80%.

This means that when the memory used by the Viewer PC is > 80% of the total memory available, an action trigger can be activated

Click on the Next button to go to the next page.

#### Step 5

Send a message when the action trigger is activated.

Enable the send a message and specify a email address.

Be aware that at the PADS Agent Server the Email server has to be specified. (See the AgentServerSettings program)

Click on the Next button to go to the next page.

#### Step 6

Click on Finish

After the Finish button is pressed this task schedule is added to the list of tasks (Have a look at he Task Scheduler Info) and will be started within one minute.

#### Remarks

- Use the Task Scheduler to observe the process of Viewer verification.
- The task scheduler at the Agent Server checks every minute for new tasks to be performed. So it is possible that a task that should be performed directly, will wait for some seconds to be started.
- Be aware that at the PADS Agent Server the Email server has to be specified. (See the AgentServerSettings program)
- At the PADS Server PC, the Computer in your network were the Mail Server is installed must be specified. use the AgentServerSettings program to adjust this setting.

## Synchronize Viewer AddOn Controls

When you want to synchronize addon controls with one ore more Viewers, click on the Viewers / Wizards / AddOn Synchronisation entry at the left of the Agent main window.

#### Step 1

Click on the Next button to go to the next page.

## Step 2

Select the Viewer(s) from the list of viewers which must be synchronized.

Click on the Next button to go to the next page.

## Step 2

Check the Check the selected Viewer(s) now option.  
This will check the Viewers immediately after the wizard is finished.

Check the periodically Viewer sync to sync at a specific time and date.  
Besides that it is possible to automatically sync the Viewers each day/week etc...

## Step 3

Specify the components that need to be synchronised.

Select the components from your local PC. The items will be synchronised and positioned at the Viewer PC at the specific addon folder.

A component is a file and can be of any type.

**Items that do no longer exist in the component list will not be deleted at the Viewer PC.**

Click on the Next button to go to the next page.

## Step 4

Click on Finish

After the Finish button is pressed this task schedule is added to the list of tasks (Have a look at the Task Scheduler Info) and will be started within one minute if it should be started now.

## Remarks

- Use the Task Scheduler to observe the process of Viewer synchronisation.
- The task scheduler at the Agent Server checks every minute for new tasks to be performed. So it is possible that a task that should be performed directly, will wait for some seconds to be started.
- Components at the Viewer PC are not deleted when no longer specified in the Component list to prevent unwanted deletion of components.
- A component is a file and can be an item that belongs to a specific component. For example a .txt file that is part of a addon dll.

## Wake Up On LAN Wizard

When you want to start a Viewer PC remotely by using the Wake Up On LAN functionality provided by some network cards, click on the Viewers / Wizards / Wake Up On LAN entry at the left of the Agent main window.

## Step 1

Click on the Next button to go to the next page.

## Step 2

Select the Viewer(s) from the list of viewers which must be Started.

Click on the Next button to go to the next page.

## Step 2

Check the Wake Up On LAN Now.

This will Start the Viewer PC immediately after the wizard is finished.

Check the periodically Wake Up On Lan to start at a specific time and date.

Besides that it is possible to automatically start the Viewer PC each day/week etc...

## Step 3

Specify the UDP port used by the Viewer PC to receive the Wake Up call.

Click on the Next button to go to the next page.

## Step 4

Click on Finish

After the Finish button is pressed this task schedule is added to the list of tasks (Have a look at he Task Scheduler Info) and will be started within one minute if it should start now.

## Remarks

- Use the Task Scheduler to observe the process of Wake Up On Lan.
- The task scheduler at the Agent Server checks every minute for new tasks to be performed. So it is possible that a task that should be performed directly, will wait for some seconds to be started.

## Software Update

Staff & Viewers can be automatically updated with newer PADS Viewer or PADS Staff Viewer Software.

## Viewer Software Update

The Viewer Software Update Wizard window is capable of installing a software update one ore more Viewers in the current PADS system.

### Intro panel

### Next panel (Select Viewers)

#### Select Viewers

Select the Viewers that need to be updated.

**Select all checkbox**

Selects all Viewers.

**Next panel (File selection)****Specify the silent installation Filename**

Specify the Filename that contains the setup for the Viewer update.  
The update setup will be provided by Net Display Systems as a silent installation setup.

**Schedule this viewer software update****Date & Time**

Specify the date & time the software update must take place

**Reboot the Viewer PC after the installation is finished**

Reboot the Viewer PC based on the date/time settings.

**Install the software now**

install the software immediately.

**Reboot the Viewer PC after the installation is finished**

Reboot the Viewer PC after the installation is finished.

**Next panel (Finish)**

Shows a overview of the choices made.

**Remarks**

- Use the Task Scheduler to observe the process of Viewer software update.
- Install software 'now' option will perform the installation within 1 minute from now.
- Be aware that a reboot is visible at a public screen.

## Update a Viewer with new software

When you want to update a Viewer with a new software update, click on the Software Update / Viewer Software Update entry in the treeview at the left of the Agent main window.

**Step 1**

Select the Viewer(s) for which the update will be performed.  
use the Shift & Ctrl key for extended selections.

**Step 2**

Click on next to go to the next page.

### Step 3

Select the Filename that contains the silent Viewer update installation provided by Net Display Systems.

By default the /s /v/qn parameters specify that the pads installation must be started silent. if you remove or change these parameters, it is possible that with a pads viewer setup a setup window will be shown at the Viewer that waits for user input.

Click on 'Now' to install the software immediately.

Click on next to go to the next page.

### Step 4

Click on Finish to start the update process.

Open the task Scheduler info window to follow the update process.

### Remarks

- If you have third party software that needs to be installed on Viewer PC's, this Software Update mechanism for Viewer update can also be used to perform this action for you if the setup follows the next rules.
  - The installation is a separate startable (exe) file that contains the complete setup
  - The setup is a silent install. No windows with question are shown that need interaction
- The task scheduler at the Agent Server checks every minute for new tasks to be performed. So it is possible that a task that should be performed directly, will wait for some seconds to be started.

## Staff Viewer Software Update

The Staff Viewer Software Update Wizard window is capable of installing a software update one ore more Staff Viewers in the current PADS system.

### Intro panel

#### Next panel (Select Staff Viewers)

##### Select Staff Viewers

Select the Staff Viewers that need to be updated.

##### Select all checkbox

Selects all Staff Viewers.

#### Next panel (File selection)

##### Specify the silent installation Filename

Specify the Filename that contains the setup for the Staff Viewer update.  
The update setup will be provided by Net Display Systems as a silent installation setup.

#### **Schedule this viewer software update**

##### **Date & Time**

Specify the date & time the software update must take place

##### **Reboot the Viewer PC after the installation is finished**

Reboot the Viewer PC based on the date/time settings.

##### **Install the software now**

install the software immediately.

##### **Reboot the Viewer PC after the installation is finished**

Reboot the Viewer PC after the installation is finished.

#### **Next panel (Finish)**

Shows a overview of the choices made.

#### **Remarks**

- Use the Task Scheduler to observe the process of Staff Viewer software update.
- Install software 'now' option will perform the installation within 1 minute from now.
- Be aware that a reboot is visible at a public screen.

## **Update a Staff Viewer with new software**

When you want to update a Staff Viewer with a new software update, click on the Software Update / Staff Viewer Software Update entry in the treeview at the left of the Agent main window.

#### **Step 1**

Select the Staff Viewer(s) for which the update will be performed.  
use the Shift & Ctrl key for extended selections.

#### **Step 2**

Click on next to go to the next page.

#### **Step 3**

Select the Filename that contains the silent Staff Viewer update installation provided by Net Display Systems.

Click on 'Now' to install the software immediately.

Click on next to go to the next page.

#### Step 4

Click on Finish to start the update process.

Open the task Scheduler info window to follow the update process.

#### Remarks

- If you have third party software that needs to be installed on Viewer PC's, this Software Update mechanism for Viewer update can also be used to perform this action for you if the setup follows the next rules.
  - The installation is a separate startable (exe) file that contains the complete setup
  - The setup is a silent install. No windows with question are shown that need interaction
- The task scheduler at the Agent Server checks every minute for new tasks to be performed. So it is possible that a task that should be performed directly, will wait for some seconds to be started.

### Update a Viewer with 3rd party software

If you have third party software that needs to be installed on Viewer PC's, this Software Update mechanism for Viewer update can also be used to perform this action for you if the setup follows the next rules.

- The installation is a separate startable (exe) file that contains the complete setup
- The setup is a silent install. No windows with question are shown that need interaction

### Statistics Info

The Statistics Info window shows timer related page and element information that is gathered from the Viewers in the current PADS system.

When designing a Presentation, you are able to specify that the 'running' information about a certain element such as when started and how long shown is saved for billing purposes or to verify that a certain commercial where a customer paid for has played.

#### Get Data

Open the Get Data Window where filters can be added before the actual data is retrieved.

##### Get Data Window

###### Filter Statistic data by specifying a ViewerName

Filter the data by using a Viewer name and retrieve only data that came from this Viewer

**Filter Statistic data by specifying a Period****From**

Specify a start from date filter

**Until**

Specify a Until date filter

**Filter Statistic data on Page or Presentation level****Page**

Return only page related records

**Presentation**

Return Only Presentation related records

**Filter Statistic data by specifying a specific elementtype**

Filter the data for the selected element type only

**Data Table**

Shows the content of the (filtered) data saved in the database.

<b>Key</b>	Unique key in billing database
<b>Location</b>	Location for this database
<b>ViewerName</b>	Name of the Viewer where the info was coming from
<b>SourceInfo</b>	Type Information <b>Element</b> <b>Page</b> <b>Presentation</b>
<b>ElementType</b>	Element type when SourceInfo = Element Image Video/Sound Web PlugIn TV PresentationInPage
<b>PublicName</b>	Public name of the Element
<b>StartTime</b>	Timestamp this element was started
<b>Duration(ms)</b>	Length of the visible period of this element on the monitor
<b>Caption</b>	Name of the image or Videofile or Web page
<b>LastModified</b>	Is this record modified, if yes a timestamp is entered
<b>Monitorstatus</b>	Status of the monitor display
<b>ModifiedBy</b>	User who modified this record

**Select All**

Select all the records in the table

**Remove**

Remove the selection from the table

### **Collapse**

Collapse the table based on the Group by fields

### **Export**

Store the content of the table to disk

#### **XML File**

Store the table in XML format

#### **Comma delimited ASCII text file**

Store the table in Comma delimited ASCII format

#### **Filename**

Specify the export filename

### **Remarks**

- The PadsBilling.mdb database is saved in the Net Display Systems \ PADS 3.0 \ Database directory and can also be used by third party programs.

## **Show Statistics for a Viewer**

When you want to show statistics for a certain Viewer, click on the Statistics Info entry in the treeview at the left of the Agent main window.

### **Step 1**

Click on the Get Data button

### **Step 2**

Check the Filter on a specific ViewerName and specify the ViewerName on which you want to filter

### **Step 3**

Press OK

All the data available in the statistic (padsbilling.mdb) database is filtered on the ViewerName and shown in the table.

### **Remarks**

- Filtered Data can be exported.

- The monitorstatus field can contain additional info if a monitor was online (on) during the element display. Have a look at the padssdk how to put this info into the statistics.

## Show Statistics for a Element

When you want to show statistics for a certain Element, click on the Statistics Info entry in the treeview at the left of the Agent main window.

### Step 1

Click on the Get Data button

### Step 2

Check the Filter for a element type and specify the type of the Element on which you want to filter

### Step 3

Press OK

All the data available in the statistic (padsbilling.mdb) database is filtered by this selected element type.

### Tip

It is also possible to use the table to group on a certain column. Drag the column to the header of the table and the table will group on that column. The total row for each item will count the number of occurrences and the total amount of milliseconds used.

### Remarks

- Filtered Data can be exported.
- The monitorstatus field can contain additional info if a monitor was online (on) during the element display. Have a look at the padssdk how to put this info into the statistics.
- Filter by Interactive click will show how many and when clicks where performed by a user which did hit the screen.

## Task Scheduler

The Task Scheduler window shows all tasks scheduled for this Agent Server in the current PADS system.

Tasks such as checking if viewers are running or perform a reboot of a viewer can be observed at runtime through the

reports that are generated. It is also possible to check what the Process has done during the 'run' through these reports.

## Tasks

### Table

<b>Key</b>	Unique internal key number
<b>Schedule type</b>	Which schedule
<b>Current status</b>	Status of the current schedule. running or not running.
<b>Schedule date</b>	When must the schedule run
<b>Completed</b>	is the schedule completed (one time schedule)? <b>False</b> Schedule is not completed (will restart after an interval) <b>True</b> Schedule is completed

### Print button

Click on the Print button to print the content of the Table.

### Add button

Click on the Add button to create a new schedule

### Copy from button

Click on the Copy from button to create a new schedule based on settings from an existing one

### Remove button

Click on the Remove button to remove an existing schedule.

## Report

### Print button

Click on the Print button to print the text of the report.

### Zoom

Click on the Zoom button to open a text window with the report text

## Report Table

### Table

Shows a report table

### Print button

Click on the Print button to print the content of the report table.

## Remarks

- When the background color of a Tasks overview row is gray(default color), this item is finished. other white rows are still running or scheduled to run later.

## Schedule a Viewer Computer Check Task

When you want to schedule a viewer check for one or more Viewers, click on the Schedule Task Info entry in the treeview at the left of the Agent main window.

### Step 1

Click on the Add button to add a new task and select Viewer Computer Check.

Next select OK to open the Viewer Computer Check Wizard

### Step 2

Select the Viewer(s) from the list of viewers which must be checked.

Click on the Next button to go to the Next Page.

### Step 3

Mark the Check the selected Viewer(s) now (once) option.

This will check the selected Viewer(s) immediately. If you want to check the viewer(s) at a regular base for instance each day, select the periodically and specify a time at which the check starts and the interval in days after which the next check is performed.

### Step 4

The warning levels are by default set at 99%. When the calculated values are higher some action can be performed that are located on the Next Page.

Click on the Next button to go to the Next Page.

### Step 5

When the calculated amount of memory or disk space is above the percentage, a message could be send or a reboot of the viewer pc could be performed.

Click on the Next button to go to the Next Page.

### Step 6

Shows an overview of the selected choices made.

Press the Finish button to add this Viewer Computer Check schedule task.

The scheduled task is added to the list of schedule tasks. When clicked on the item, at the bottom more detailed information can be displayed. Even when a task is running (for instance when you are checking 800 Viewers in a large system), you can check the progress in this detailed area.

## Remarks

- Detailed information can be printed.
- After the task is finished the Completed column is set to Yes, when the task is scheduled to run at each interval, this field contains always No.
- When the background color of a Tasks overview row is gray(default color), this item is finished. other white rows are still running or scheduled to run later.

## Report Window

To show a larger text window with the content of the report, press the report window button 'Text Editor'

## Server Running Program Info

The program Settings window is capable of editing Server settings for the current PADS system.

### PADS Server

Press the Edit button to show/change PADS Server settings.

When settings have been changed, the PADS Server is restarted if possible.

### Agent Server

Press the Edit button to show/change PADS Agent Server settings.

The PADS Agent Server can not be restarted automatically. Please restart the Agent Server manually after changing settings.

### Layout Server(s)

Select a Layout Server from the list of available Layout Servers .

Press the Edit button to show/change PADS Layout Server settings.

### Data Server(s)

Select a Data Server from the list of available Data Servers .

Press the Edit button to show/change PADS Data Server settings.

## Changing PADS Server settings

When you want to show/change PADS Server settings, click on the Servers Info / Running Program Info entry in the treeview at the left of the Agent main window.

### Step 1

Select the PADS Server tabulator

## Step 2

Press the Edit button to open the Settings wizard for the PADS Server

This Wizard is the same that is shown when the padsserversettings.exe wizard is opened.

The changed settings will be saved in the PADS Server padserver.xml file, which is located in the program files directory on the server pc.

## Remarks

- The Wizard shows all available options that can be set for the PADS Server. Changing these settings to invalid values may cause program malfunction for instance when invalid Portnumbers or Computer names are specified.
- Have a look at the PADS Server settings Wizard for more detailed information about the individual settings
- Changing settings may result in the need for a restart of the PADS Server.

## PADS Server settings Configuration Wizard

The PADS Server settings Configuration Wizard helps the user to set all the needed properties for the PADS Server application.

When the Wizard is opened by using the Edit button from the Running Program Info window the current settings are retrieved from the PADS Server and shown in the Wizard that pops up.

### Intro Panel

Shows a intro

Press Next Page button to go to the next page

### PADS Database Type

Specify if the Microsoft Jet Engine or SQL Server is used for storage.

Press Next Page button to go to the next page

#### Microsoft Jet Engine (MS Access) selection

Specify the full path where the PADS database is located.

Press Next Page button to go to the next page

#### SQL Server selection

Specify the server name of the SQL Server environment that holds the PADS database

Press Next Page button to go to the next page

Specify the name of the PADS Database within the SQL Server environment

Specify the Username & SQL Server administrator (SA) Password and press the Create button to create the PADS database.

Press Next Page button to go to the next page

### **Client Communications**

Specify the portnumber used by the Client applications such as the Layout Server to get connected to the PADS Server

**Specifying an invalid portnumber may result in Client applications not getting connected to the PADS Server**

Press Next Page button to go to the next page

### **Scheduler**

The Scheduler creates the recurrence items when needed.  
(Recurrent schedules are created with the PADS Manager Application)

Specify the name of the log file and the amount of files (for each day one) that must be kept.  
The log files contain information about the running scheduler processes.

Press Next Page button to go to the next page

### **Remove**

The Remove removes recurrence records no longer needed.

Specify the number of days after which the records are removed from the database.

Specify the name of the log file and the amount of files (for each day one) that must be kept.  
The log files contain information about the running remover processes.

Press Next Page button to go to the next page

### **PADS Server type**

The PADS Server can be started as a normal PADS Server, or as a replication PADS Server

#### **Normal PADS Server system**

The PADS Server acts as a local Server that has no connections with other (remote) PADS Servers

Press Next Page button to go to the next page

#### **Replicated PADS Server system**

##### **Central Server**

This PADS Server acts as a Central PADS Server. Other Decentral PADS Servers will retrieve their synchronize database information from this PADS Server.

##### **Synchronize library files**

Specify the root directory & web share where the library files are stored that can be downloaded by the PADS Decentral Servers

If left blank, no synchronize of library files is possible from the Central Server to Decentral Servers.

Press Next Page button to go to the next page

### **Decentral Server**

This PADS Server acts as a Decentral PADS Server and will connect to a PADS Central Server for synchronisation of the database.

Press Next Page button to go to the next page

### **System Synchronisation**

Allows to synchronize with a (remote) Central PADS Server.

Specify the Computername and portnumber of the Central PADS Server.

Optionally a filter can be specified that will result in synchronising only a part of the PADS database.

Press Next Page button to go to the next page

### **System Synchronisation**

#### **Continuous connection**

The connection with the Central PADS Server is always open.

#### **Dial-up connection**

The connection with the Central PADS Server is established through a dial-up connection.

#### **Synchronize once a day**

The synchronize is performed once a day at this time.

#### **Synchronize at a specific interval**

The synchronize starts at this time with the specified interval.

Press Next Page button to go to the next page

### **Library Files Synchronisation**

Automatic download of library files can be turned on to download the library files from the Central Server.

#### **Download all folders**

Download all(sub)folders that are available on the Central Server

#### **Download specified folders only**

Download only specified folders that are available on the Central Server with or without

subfolders

### Optional local download root folder

When turned on you are able to specify a different root folder where all the download files must be placed.

Press Next Page button to go to the next page

### Remarks

- Be aware that using dial-up connections may require adjusting Server PC settings for network connections. Have a look at your network manuals.
- When dial-up is used and also download of library files is turned on, the Decentral PADS Server will connect to the Central PADS Server, synchronize the database and start the download library files component. When all the library files are synchronised, the download component will close the connection.

## Changing Agent Server settings

When you want to show/change PADS Agent Server settings, click on the Servers Info / Running Program Info entry in the treeview at the left of the Agent main window.

### Step 1

Select the PADS Agent Server tabulator

### Step 2

Press the Edit button to open the Settings wizard for the PADS Agent Server

This Wizard is the same that is shown when the padsagentserversettings.exe wizard is opened.

The changed settings will be saved in the PADS Agent Server padsagentserver.xml file, which is located in the program files directory on the server pc.

### Remarks

- The Wizard shows all available options that can be set for the PADS Agent Server. Changing these settings to invalid values may cause program malfunction for instance when invalid Portnumbers or Computer names are specified.
- Have a look at the PADS Agent Server settings Wizard for more detailed information about the individual settings
- Changing settings may result in the need for a restart of the PADS Agent Server.

## Agent Server settings Configuration Wizard

The Agent Server settings Configuration Wizard helps the user to set all the needed properties for the PADS Agent Server application.

When the Wizard is opened by using the Edit button from the Running Program Info window the current settings are retrieved from the Agent Server and shown in the Wizard that pops up.

### Intro Panel

Shows a intro

Press Next Page button to go to the next page

### Servers

#### All PADS Server components are installed on the local PADS Agent Server Computer

No extra information needed. The Agent is capable of retrieving information from all the components.

#### One or more components are installed on different Computers

##### PADS Server

Specify the Computername and optionally a different portnumber where the PADS Server is located.

##### PADS Layout Server(s)

Specify the Computername(s) and optionally different portnumber(s) where the PADS Layout Server is located.

It is possible that a local PADS Systems contains more Layout Servers for balancing CPU load. Specify all the Layout Server(s) that must be controlled by the PADS Agent. If the Layout Server is not specified here, the Agent Application will not be able to Control this Layout Server.

##### PADS Data Server(s)

Specify the Computername(s) and optionally different portnumber(s) where the PADS Data Server is located.

It is possible that a local PADS Systems contains more Data Servers for balancing CPU load. Specify all the Data Server(s) that must be controlled by the PADS Agent. If the Data Server is not specified here, the Agent Application will not be able to Control this Data Server.

Press Next Page button to go to the next page

### Agent Server PortNumber

#### Agent Incoming portnumber

The Agent Server contains an incoming portnumber for Clients such as Viewers to connect to the Agent Server.

Changing the default portnumber will require a settings change on the PADS Viewer application for the outgoing portnumber of the Agent Controller.

### Agent Controller PortNumber

#### Agent Controller incoming portnumber

Portnumber used by the Agent Server to connect to PADS Viewers.

Changing the default portnumber will require a settings change on the PADS Viewer application for the incoming portnumber of the Agent Controller.

Press Next Page button to go to the next page

### Statistics Database

#### Filename of the statistics database location

Full path where the statistics database is located.

#### Location

When using more Agent Servers, it is wise to enter a location identifier. This will identify individual records when migrating statistics databases from different locations.

Press Next Page button to go to the next page

### Logging System Information

#### Write Log information to the system event log

Enable to write messages generated by the Agent Server to the application event log.

#### Filename of the PADS Agent Server Log file

Full path where to store Agent Server messages. Messages can provide detailed information in case where failures occur.

#### Mail Server

Name of the Server in your network that is used as mail server.

When the Agent Server needs to send mail messages, for instance when a scheduled task needs to send a mail message, it must know where the Mail Server is located. When this property is not set correctly, you are not able to send Mail.

Press Next Page button to go to the next page

### Finished

Press Finish button to store the changed settings

### Remarks

- Statistics data is retrieved from Viewers and contains information about screen elements and the time they were visible. This can be used for billing purposes.

## Changing Layout Server settings

When you want to show/change PADS Layout Server settings, click on the Servers Info / Running Program Info entry in the treeview at the left of the Agent main window.

### Step 1

Select the PADS Layout Server(s) tabulator

## Step 2

Select the Layout Server that must be adjusted/shown from the list of available Layout Servers.

If the desired Layout Server is not in the list, have a look at the PADS Agent Server Settings, where available Layout Servers for the current PADS System are specified.

## Step 3

Press the Edit button to open the Settings wizard for the PADS Layout Server

This Wizard is the same that is shown when the padslayoutserversettings.exe wizard is opened.

The changed settings will be saved in the PADS Layout Server padslayoutserver.xml file, which is located in the program files directory on the server pc.

## Remarks

- The Wizard shows all available options that can be set for the selected PADS Layout Server. Changing these settings to invalid values may cause program malfunction for instance when invalid Portnumbers or Computer names are specified.
- Have a look at the PADS Layout Server settings Wizard for more detailed information about the individual settings
- Changing settings may result in the need for a restart of the PADS Layout Server.

## Layout Server settings Configuration Wizard

The Layout Server settings Configuration Wizard helps the user to set all the needed properties for the PADS Layout Server application selected.

When the Wizard is opened by using the Edit button from the Running Program Info window the settings for the selected Layout Server are retrieved by the Agent Server and shown in the Wizard that pops up.

### Intro Panel

Shows a intro

Press Next Page button to go to the next page

### Server Communication

#### **PADS Server name**

Specify the computername where the PADS Server is located.

by default this the same computer as were the Layout Server is running.

#### **PADS Server port number**

Optional port number used by the PADS Layout Server to connect to the PADS Server.

Adjusting this setting will require changes in PADS Server incoming (Layout Server) port settings.

Press Next Page button to go to the next page

## Client Communication

### Client port number

Clients such as the PADS Viewer connect to the PADS Layout Server through this port number.

Press Next Page button to go to the next page

## Refresh Interval

### Refresh Interval (milliseconds)

Specify the refresh rate at which the Layout Server detects changes in database structures from the PADS Server

In normal situations this interval does not need any changes.

Press Next Page button to go to the next page

## Synchronisation

### Folder name

Name of the Folder which is used for synchronising PADS library files with Viewer applications.

All sub folders are included in the synchronisation process.

### Web share alias

Specify the webshare that is created to reach the folder.

Press Next Page button to go to the next page

## Finish

Press Finish button to save the changes made.

## Changing Data Server settings

When you want to show/change PADS Data Server settings, click on the Servers Info / Running Program Info entry in the treeview at the left of the Agent main window.

### Step 1

Select the PADS Data Server(s) tabulator

### Step 2

Select the Data Server that must be adjusted/shown from the list of available Data Servers.

If the desired Data Server is not in the list, have a look at the PADS Agent Server Settings, where available Data Servers for the current PADS System are specified.

### Step 3

Press the Edit button to open the Settings wizard for the PADS Data Server

This Wizard is the same that is shown when the padssdataserversettings.exe wizard is opened.

The changed settings will be saved in the PADS Data Server padssdataserver.xml file, which is located in the program files directory on the server pc.

### Remarks

- The Wizard shows all available options that can be set for the selected PADS Data Server. Changing these settings to invalid values may cause program malfunction for instance when invalid Portnumbers or Computer names are specified.
- Have a look at the PADS Data Server settings Wizard for more detailed information about the individual settings
- Changing settings may result in the need for a restart of the PADS Data Server.

## Data Server settings Configuration Wizard

The Data Server settings Configuration Wizard helps the user to set all the needed properties for the PADS Data Server application selected.

When the Wizard is opened by using the Edit button from the Running Program Info window the settings for the selected Data Server are retrieved by the Agent Server and shown in the Wizard that pops up.

### Intro Panel

Shows a intro

Press Next Page button to go to the next page

### Client Communication

#### Client port number

Specify the incoming portnumber used by clients such as the Viewer to get connected to the Data Server.

When changing the default value, be aware to change the values al the Client applications also.

### Logging System Information

#### Write log information to the system event log

When enabled messages generated by the DATA Server are stored in the Application event log.

#### Filename of the PADS Data Server Log file

Full path where to store Data Server messages. Messages can provide detailed information in case where failures occur.

### Finish

Press Finish button to save the changes made.

## Data Servers Info

The Data Servers Info window is capable of showing real time Data Server information for the current PADS system.

### Data Server(s)

Contains a list with all available Data Servers in the current pads system.

Select an item from the list for more detailed information.

### Current Data Server data retrieval processes

Contains all Data read processes currently active.

These processes are controlled by running Viewers that need data through the Data Server.

### Refresh

Click on the Refresh Button to reload all the data read processes.

### Info Tab

#### Data is used by Viewers

List that contains the Viewers that are connected to this data source.

Click on an item to show more detailed information for this Viewer

#### Data Loaded

Shows if data is available or not (Yes/No)

#### Last read timestamp

Timestamp at which the data was read for the last time.

#### Data read error

When an error occurred during the read action, it shows the error occurred.

#### data read interval (ms)

What is the interval between two data read actions in milliseconds.

### Data Tab

### Data Currently read by this process at the Data Server

Contains the (raw) table that is read by the Data Server for the selected process

### Refresh Button

Refresh the table with the latest information available from the Data Server.

### Print Button

Press the Print button to print the current data table.

### Remarks

- When More Viewers are connected to the same process, they all receive the same data table.

## Show Data Server Info for a Viewer

The PADS Data Server Info window is capable of showing all data retrieval processes from all PADS Data Servers in the current PADS System.

Click on the Servers Info / Running program Info / Data Servers Info entry in the treeview at the left of the Agent main window.

### Step 1

Select a Data Server from the list of available Data Servers by clicking on the item.

### Step 2

Select a data reader from the list of available data reader processes by clicking on the item.

At the bottom The tabulator now shows detailed information for this data reader selected.

The list with Viewers show which Viewers are connected to this data reader and the time used to execute this query(current executed time).

Besides that the maximum time needed to execute the query is also displayed to give an idea about the maximum time needed in milliseconds to run this query on the Data Server PC.

To show the data, click on the Data tab.

### Remarks

- It is also possible to show Data from a specific Viewer  
there for open the Viewer / Status Info Window, click on the Viewer and at the bottom select the Data Connection Info Tab.
- Click on the **refresh button** to reload the active data readers.

## Layout Servers Info from Servers Info

The Layout Servers Info window is capable of showing Layout Server information for the current PADS system.

### Layout Server(s)

Contains a list with all available Layout Servers in the current pads system.

Select an item from the list for more detailed information.

### Table

Shows all the Viewers available in the Current PADS system and their connection status

<b>Viewer</b>	Name of the Viewer
<b>Keepalive timestamp</b>	Most recent timestamp the Viewer called the Layout Server
<b>Last time schedule was modified</b>	Last time Changes occurred for this Viewer When the PADS Manager is used to schedule a presentation for a Viewer, this timestamp will be adjusted to the timestamp it was added.

### Refresh

Press the Refresh Button to refresh the current table with the latest information

### Print Button

Prints the current table displayed.

## Show Layout Server Info

The PADS Layout Server Info window is capable of showing Viewer connection related information in the current PADS System.

Click on the Servers Info / Layout Servers Info entry in the treeview at the left of the Agent main window.

### Step 1

Select a Layout Server from the list of available Layout Servers by clicking on the item.

The table contains a list with all available Viewers in the current PADS System along with information if a Viewer is online.

The keepalive timestamp shows when a Viewer connects to the Layout Server.

The Last time schedule modified column shows when the last scheduling change occurred for this Viewer.

To get the latest information press the Refresh Button.

### Remarks

- Schedule changes are made by the PADS Manager application.
- Every Viewer sends a keepalive to the Layout Server once a minute.
- When using more than one Layout Server in a PADS System, it is possible that a number of Viewers that are not connected to the current displayed Layout Server are connected to a different one.

## Event Log Info From Servers Info

The Event Log Info window is capable of showing system Event Log information from a certain Layout or Data Server.

### Layout Server(s)

Contains a list with all available Layout Servers in the current pads system.

Select an item from the list to show the application event log of the PC where this Layout Server is running

### Data Server(s)

Contains a list with all available Data Servers in the current pads system.

Select an item from the list to show the application event log of the PC where this Data Server is running

### Table

Contains the Application event log information from the selected item

<b>Line</b>	Unique Line number
<b>Type</b>	<b>Info</b> Information related info <b>Warning</b> Minor problems <b>occurred</b> <b>Error</b> Serious problems occurred
<b>Source</b>	Which application created this message? PADSLayoutServer PADSDataServer PADSServer PADSAgentServer
<b>Timestamp</b>	Date/time this message was created
<b>Message</b>	Text

### Filter event log for PADS system messages

When enabled the table shown contains only PADS system messages.

## Tools

The PADS Designer application has some built-in tools that are used across or affect the entire application.

## Setting options

The PADS Agent application has a number of global settings that determine the overall working of the application.

### To adjust one or more of the application settings

1. Click **Options** on the **Tools** menu
2. Adjust one or more of the settings
3. Click **OK** or **Apply** to make the changes effective.

### Options overview

#### [PADS Agent Servers options](#)

Settings that are related to the location of the PADS Agent Servers in your PADS environment.

#### [Colors options](#)

Allows you to define default colors used by the PADS Agent.

#### [Timer options](#)

Settings that determine how fast the PADS Agent must poll for changes in data structures at the PADS Agent Server.

## PADS Agent Servers

These options represent the location of PADS Agent Servers in your environment.

### **Add**

Add a new PADS Agent Server reference

### **Remove**

Remove the selected PADS Agent Server reference

### **Edit**

Edit the selected PADS Agent Server reference

### **Agent Server Window**

When Add or Edit is selected the Agent Server window is opened.

#### **Public Display Server name**

Enter a name that corresponds to the Agent Server

#### **Specify the Computername where the PADS Agent Server is installed**

Specify where the PADS Agent Server is located

#### **Local Computer**

The Agent Server is running on this local PC.

**Remote Computer**

The Agent Server is running on a different PC in your network environment. Specify the computername.

**Specify the port on which the PADS Agent Server is connected**

Specify on which port the Agent Server is listening for incoming calls. See also the PADSAgentServerSettings wizard. In normal situations this portnumber does not need any changes.

**Use default portnumber****Use different unique portnumber**

Specify the portnumber on which the Agent Server is listening for incoming calls.

**Test Connection**

Press this button to the connection with the current settings specified.

**OK**

Save settings and close the window

**Cancel**

Abort settings and close the window

**Remarks**

- At least one Agent Server is needed to run the Agent application.
- In normal situations changing port numbers is not needed. This is just for cases when extended network security is needed.

**Colors**

These settings allow you to define colors which are used by the PADS Agent.

**Fill color used when warnings are displayed in tables**

Specify the color by clicking on the color.

**Fill color used when scheduled tasks are finished**

specify the color by clicking on the color

**Remarks****Timer Settings**

These settings allow you to define interval settings which are used by the PADS Agent.

**Viewer status info refresh interval (seconds)**

Specify the interval in seconds between two refreshes.  
The PADS Agent will check after each interval if changes occurred during the interval and will display them.

#### **Task Scheduler info refresh interval (seconds)**

Specify the interval in seconds between two refreshes.  
The PADS Agent will check after each interval if changes in tasks occurred during the interval and will display them.  
For instance when the report has some new entries, or a different Agent application scheduled a new task.

#### **Process info refresh interval (seconds)**

Specify the interval in seconds between two refreshes.  
The PADS Agent will check after each interval if changes in processes on the Viewer occurred during the interval and will display them.

#### **Download info refresh interval (seconds)**

Specify the interval in seconds between two refreshes.  
The PADS Agent will check after each interval if changes in download library files occurred during the interval and will display them.

#### **Screen capture info refresh interval (seconds)**

Specify the interval in seconds between two refreshes.  
The PADS Agent will create a new screen capture after each interval and display it.

#### **Remarks**

- Changing settings for faster refreshes, will cause more network resources usage.

## Print Window

When something must be printed, use the print button in the main menu, or press the associated print button.

The print window will be displayed which shows a preview with the pages to be printed.

### Landscape / Portrait

Select the paper orientation

### Font

select the font for printing text

### Fontsize

Select the fontsize for printing text

### Page

Show a (next/previous) page if available

### Zoom preview window

Zoom in/out

## File menu

### Page Setup

Get the page setup for the printer.

Changes made are kept during the life cycle of this application.

### Print

Print the pages and afterwards close this print window.

### Close

Close this print window without printing.

## Closing PADS Agent

When you are completely finished you can close the PADS Agent application.

### To close the PADS Agent application

1. On the **File** menu click **Exit**.

### Remarks

- If you have opened additional windows then you first have to return to the main window of the application, before you can leave the application.
- You can also use the key combination [Alt] + F4 to leave the application. If you have opened additional windows then you must use this key combination several times to quit.

## PADS Agent SDK

In cases where you want to create Agent tasks by creating your own program, this can be accomplished by using the Net Display Systems Agent SDK (System Development Kit). Have a look at the Agent SDK Help file for more information about programming with this SDK.

### Remarks

- Use Microsoft Dot Net 2008 programming tools such as Visual Basic Dot Net & C# Dot Net
- Check the [Net Display Systems Website](#) for online SDK examples.