JUNG Facility-Pilot
Visualization Server, Version 2.3

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1 Technical Requirements

1.1 Hardware

Processor	Pentium IV or equal, running at 2,0 GHz.
Main memory	1024 MB
Free disk space (additional disc space requirements depend on the configured archives)	40 GB
Screen resolution	1024 x 768 Pixel
Colors	Color depth min. 16 bit per pixel.

1.2 Operating Systems

WINDOWS SERVER 2008 / 2012	NO
WINDOWS 10, 32 + 64-bit	NO
WINDOWS 8 and 8.1 Pro, 32 + 64-bit	YES
WINDOWS 7 Home, Professional and Ultimate, 32 + 64-bit	YES
WINDOWS XP	NO

1.3 Software

The installation of the Facility-Pilot 3.3 with its requirements, the installation of the Microsoft Information Server 7.5 (IIS) and the .NET Framework 3.5 Service Pack 1.

1.4 Client/Browser Settings

- Javascript must be enabled.
- Cookies must be enabled.
- Using multiple browser tabs is browser-dependent and will not work with most browsers.
- Whether an incognito / private browsing option works, is also browser-dependent.

2 First Run

When you start the visualization server in the browser for the first time, you see the login screen. The start page is available via ***http://localhost:8080***, provided that the server was installed with the default settings.

3 Administration Surface

First, a login as an administrator is necessary to configure the visualization project, which is to be displayed. The account of the administrator only serves for the configuration of the project settings. To display a project, another user must be created.



Enter the following data:

Username: *admin*
Password: *0000*

Then confirm your entries with ***Login***.

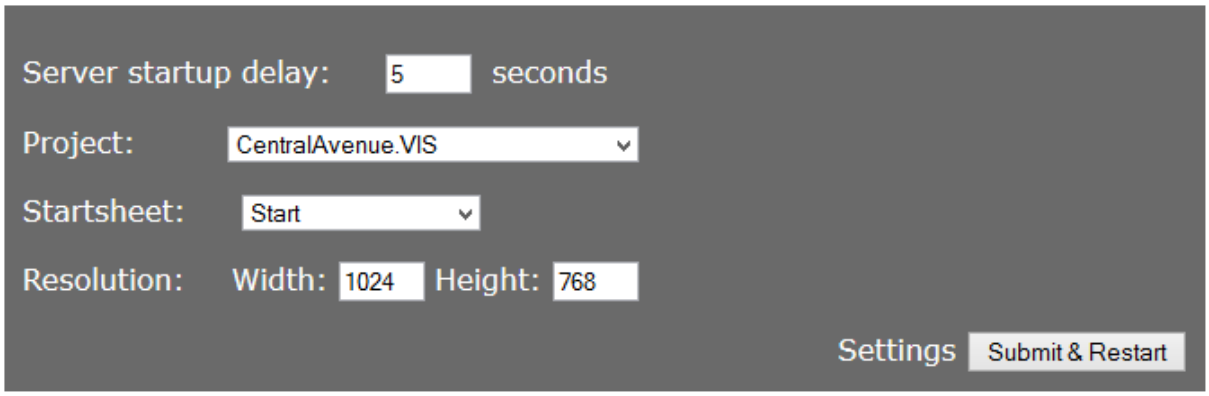
NOTE:

For your own safety the preset administrator password should be changed. The newly assigned password should be stored carefully!

The visualization server should not be made publicly available without further security measures on the Internet.

3.1 Project Settings

Under ***Settings*** in the administration area you have to select a visualization project, which should be accessible by the user.



Select the desired ***visualization project*** by clicking on the drop down menu for the project. Then you can define the ***Start page***, which is automatically displayed when starting the project in the browser. Finally, define the start delay in seconds and the ***resolution*** and confirm by clicking the button ***Submit & Restart.***

In this example, a worksheet named Start and a resolution prefix 1024x768 is searched. If no worksheet „1024x768_Start" found a worksheet is automatically selected, which is closest thereto.
On the actual size of the loaded worksheet, this setting has no effect, it is used only to select the Start worksheet.

This project-related adjustment of the start worksheet is used as the default and can be overwritten in each user's settings if necessary.

About the ***Server startup delay*** you can start the visualization to the specified number of seconds delay.

Adopting the settings requires a server reboot. Click on ***Submit & Restart*** to apply the settings.



Then answer the confirmation prompt by clicking ***OK***. The server will then be restarted after the configured start delay.

3.2 User Management

The users list from the control panel of the Facility Pilot system is listed in the administration area of the server.

Note:
The password of a pre-defined user by default is System and can be changed in the user administration of the Facility Pilot.
The administration of the users is done in the control panel of the JUNG Facility Pilot system. For further information, please refer to the chapter ***4.1.1 User Management*** in the help file of the JUNG Facility Pilot control panel.

3.2.1 Connection Limit

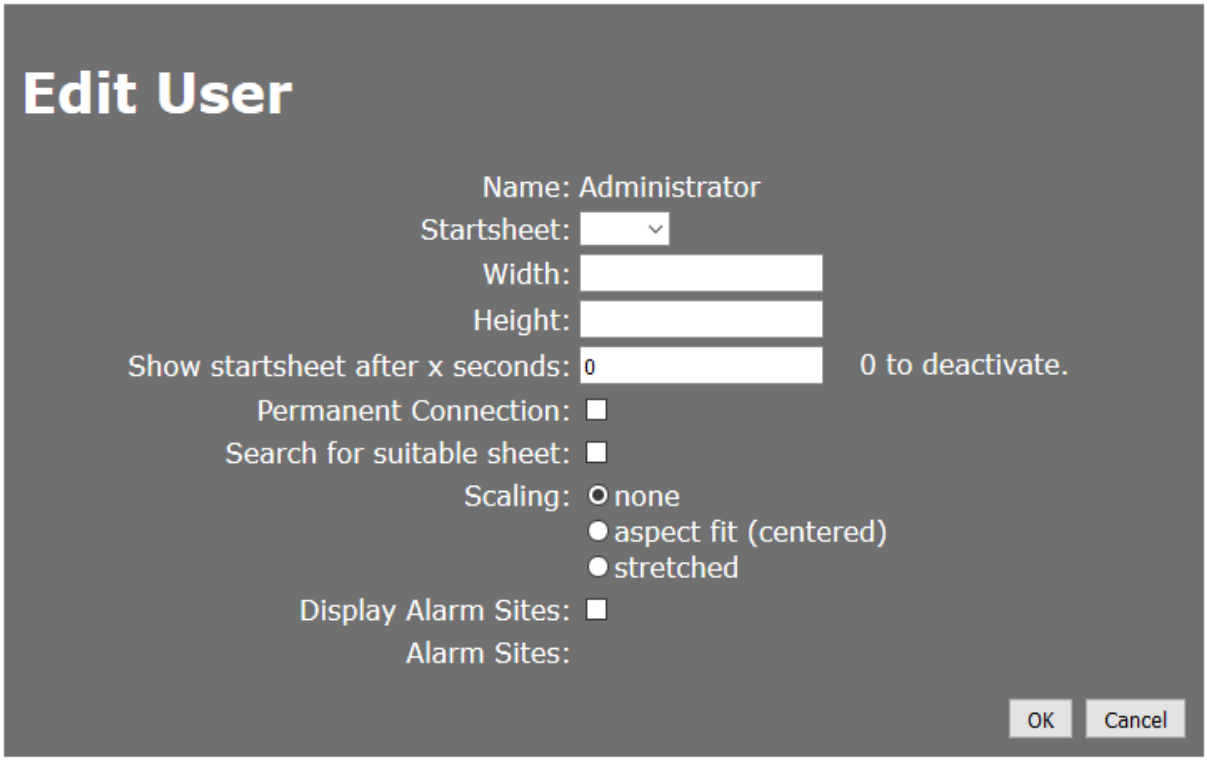
With the visualization server, maximal 10 participants/clients (hardware and operating system dependent) can connect simultaneously. If this connection limit is exceeded, the oldest inactive connection will be disconnected first. If there is no inactive connection, it will automatically disconnect the oldest active connection.

Name	Startsheet	Width	Height	Permanent	Actions
Administrator				no	Edit
Guest				no	Edit
Mainuser		1366	768	no	Edit
User				no	Edit

With the Option ***Permanent***, users can be protected from the automatic separation.

3.2.2 Edit User Settings

To edit the user settings, click in the row of the desired user the button ***Edit***.



Setting ***Startsheet***, ***Width*** and ***Height*** equal to the default settings for selecting the start worksheet and overwrites them. You have the option to assign each user a different start worksheet.

Permanent connection prevents automatic disconnect by login a new user, if all connections are exhausted to the server. These settings should be used for user accounts, what to connect Panel PCs or devices that should not be disconnected automatically (eg. JUNG SmartControl IP).

Search for suitable sheet refers to the sheet that should be visible, if the orientation changes (for example while rotating a smartphone).

- ***Active***: The server will try to find a sheet with switched resolution to the active sheet. If no suitable sheet is found, the server will search for a sheet, which is near to the switched resolution.
  Example: A sheet with the resolution 1024x768 is visible. While changing the orientation, the server will search a sheet with the resolution 768x1024. If no sheet is found the server will search for a sheet near to the resolution 768x1024.
- ***Inactive***: The server will try to find a sheet with switched resolution to the active sheet. If no suitable sheet is found, the active sheet will not be changed.

You can select a specific user scaling of the worksheet. It can be chosen between ***none, aspect fit*** and ***stretched***.

- none loads the worksheets as they were configured. They are drawn from the upper-left corner of the browser window.
- aspect fit will scale the worksheet according to the size of the browser window with a consistent aspect ratio and centered. The worksheet will not be stretched but if necessary an edge is added.
- stretched enlarges or reduces the height and width of the worksheet on the size of the browser window and scaled the content by stretching to the new size.

Enable/Disable the setting ***Display Alarm Sites*** to enable/disable automatic change to set alarm sheets.

If the setting is disabled the automatic change to alarm sheets is deactivated regardless of the settings under ***Alarm Sites***.
In the settings ***Alarm Sites*** alarm sheets for the user can be enabled or disabled individually.

Note:
For new created users and alarm sites this option is disabled. Admin has to enable this options for each user explicitly.

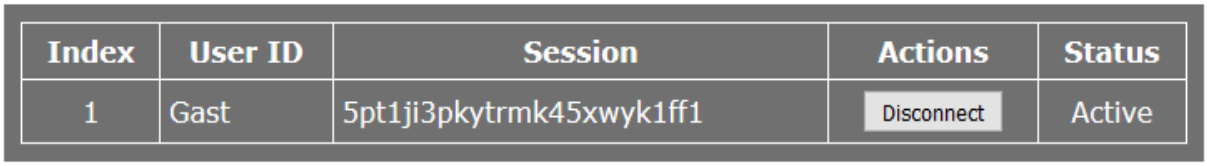
In ***Edit User*** dialog submit your settings by clicking ***OK***.



Then answer the confirmation prompt by clicking ***OK***.

3.2.3 Disconnect User

The active users are displayed in the connection list.



Index	User ID	Session	Actions	Status
1	Gast	5pt1ji3pkytrmk45xwyk1ff1	Disconnect	Active

By clicking on the ***Disconnect*** button, the connection is released.

3.2.4 Add User

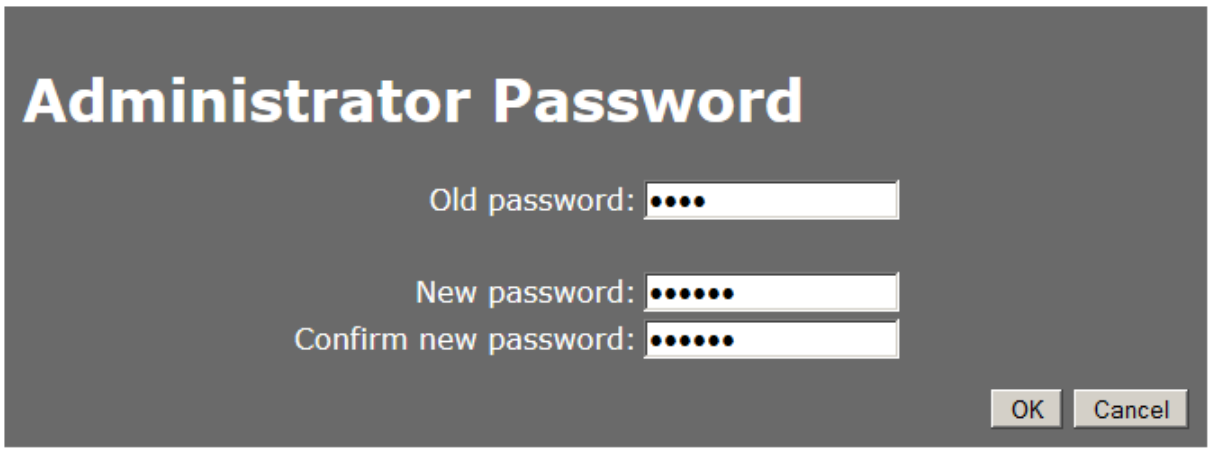
The administration of the users is done in the control panel of the JUNG Facility Pilot system. For further information, please refer to the chapter ***4.1.1 User Management*** in the help file of the JUNG Facility Pilot control panel.

3.3 Change Administrator Password

To change the administrator password, click the button ***Change administrator password***.



Enter the current and the new password. Then confirm the new password in the last entry field.



Confirm the entries by clicking ***OK***.



Answer the confirmation prompt by clicking ***OK***.

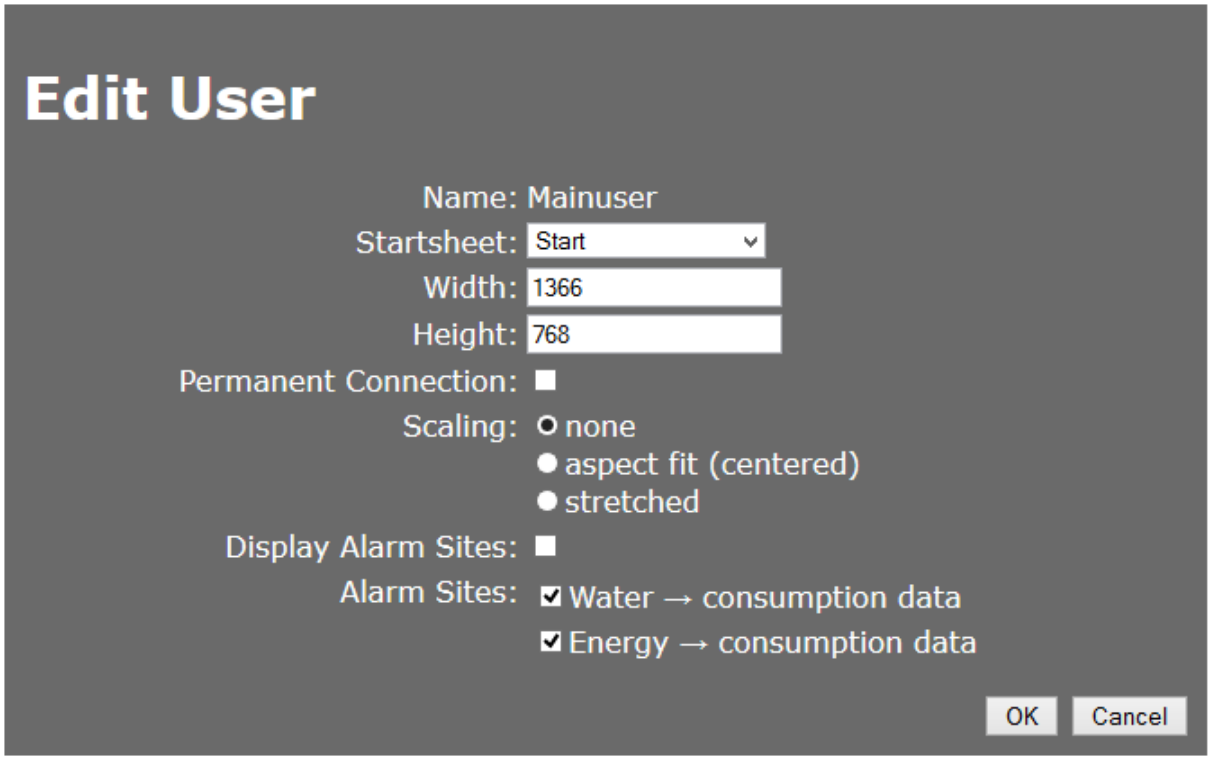
3.4 User-specific Start Page

You can assign specific start pages to individual users, that deviate from the default start page.

Enter in the address bar of the browser ***http://localhost:8080*** and press the ***Enter*** button, then log back in with the user ***admin*** and the password ***0000.***

Name	Startsheet	Width	Height	Permanent	Actions
Administrator				no	Edit
Guest				no	Edit
Mainuser		1366	768	no	Edit
User				no	Edit

Under ***User***, click in the row of the desired user on the button ***Edit***.



Select the required worksheet in the drop-down menu, configure, if applicable, the resolution and confirm by clicking ***OK***.



Answer the confirmation prompt by clicking ***OK***. The settings will then be saved and assigned to the user. Then click ***Logout*** to logout from the administration area.



After entering the user data on the login page, the assigned start page for the user is automatically displayed.

4 Open Project



Enter the user data in the login mask:

Username: ***Guest***
Password: ***System***

Then confirm your entries by clicking ***Login*** and the start page of the project specified before will be opened.

5 Further Information

5.1 Resolution Selection and Scaling

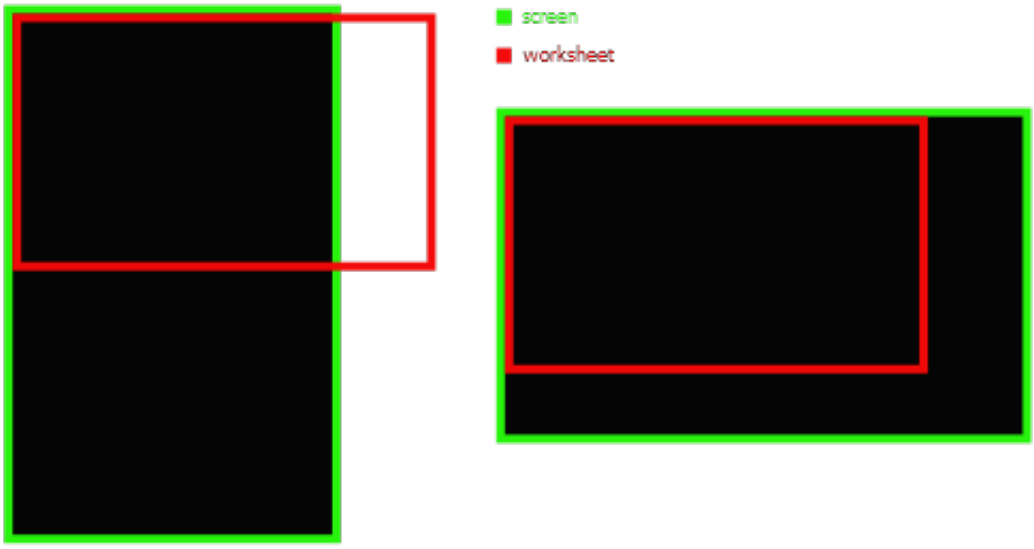
Resolution Selection

If a user has a specific worksheet size entered that doesn't exist in the project, the server choose an available worksheet resolution (for example: for an entered 1024x768 resolution with the two existing resolutions 1280x1080 & 1920x1080, the first one will be used).

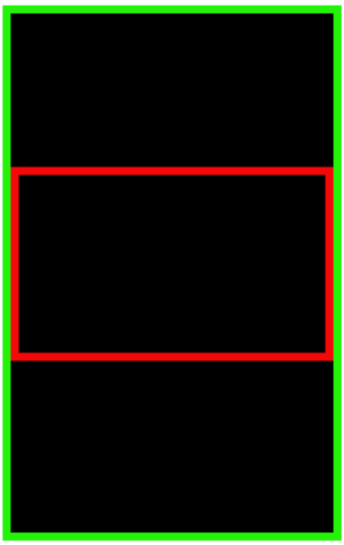
Scaling

Since Facility-Pilot Server Version 2.3.0.9 the server automatically scales worksheets to the height and width of the screen. If the screen changes from portrait to landscape or landscape to portrait orientation (e.g. rotation iPad) and no proper worksheet is found, the current loaded sheet will be scaled to new screen width.

None

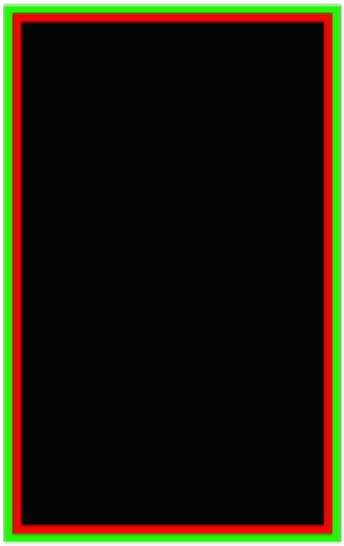


Aspect fit (centered)





Stretched



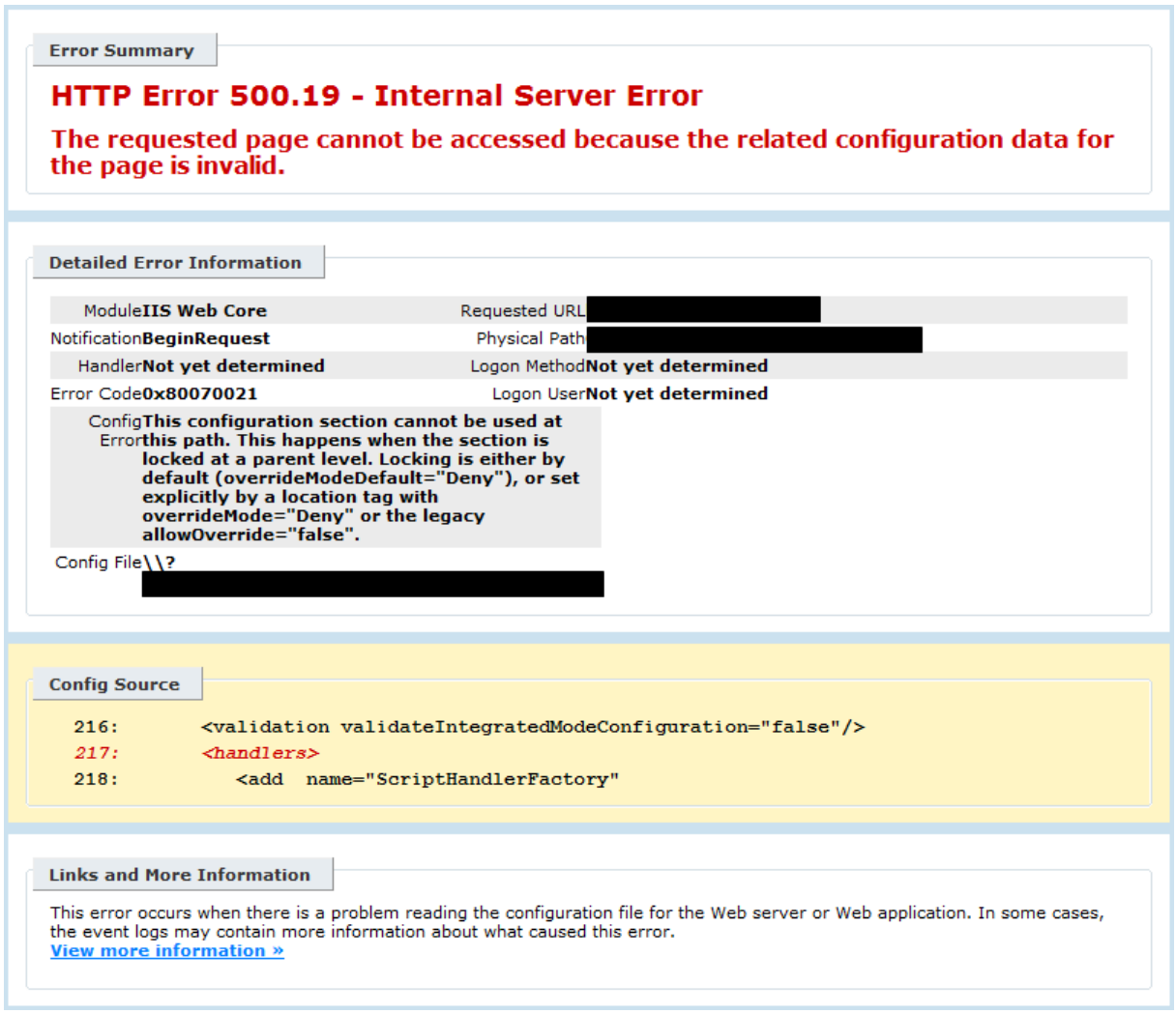


5.2 Installation Note

If you first uninstall and later reinstall the Facility-Pilot visualization, you must uninstall and reinstall the visualization server (after the reinstallation of the Facility-Pilot) as well.

For the installation and uninstallation of the visualization server run the setup. Follow the installation instructions. Please note that the Microsoft Information Server 7.5 (IIS) must be stopped before this process.

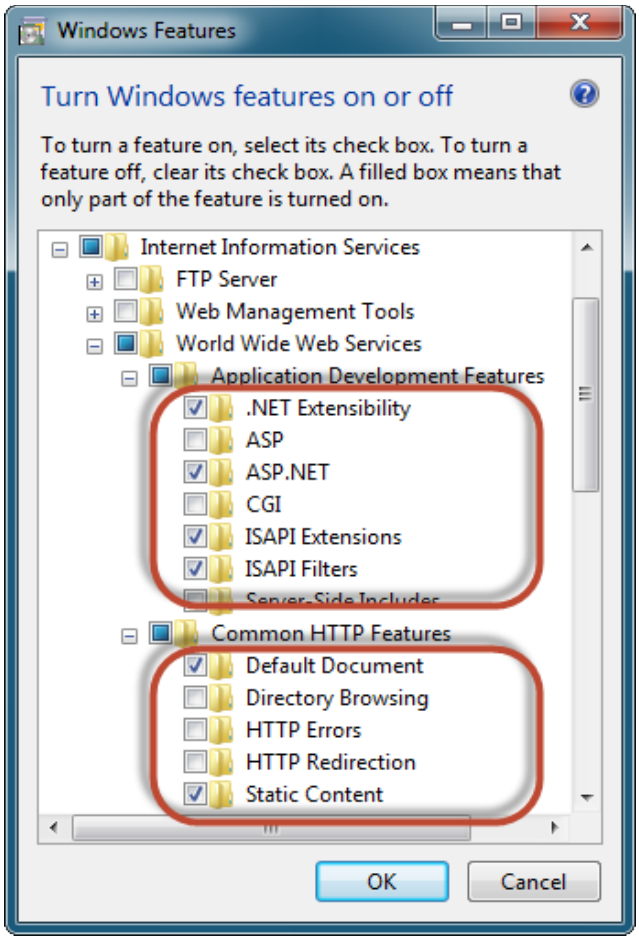
If not all the required components of IIS are installed or enabled, an error message may possibly be generated. For example:



In this case, you have the option to install the required ASP.NET components.

Select Components and Functions

Select Control panel > Programs and features > turn Windows features on or off.



Activate and confirm the required options under Internet information services > world wide web services > Application development features > ***ASP.NET*** and Common HTTP Features > ***Static Content***. Then the activated check boxes should look like in the picture above.

5.3 Exit Station manually

The visualization server interacts with the Facility-Pilot System via a component, which is named ***Station***. It is the common link between the Facility Pilot modules. If the station is not already running, it is activated and started in the information area when the server is started by opening the user interface in the browser. The station continues running until the application pool is stopped explicitly in the Microsoft Information Server 7.5 (IIS).