

FactoryViews 1.1.3 with MES4 V3

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1 Installation and Activation

1.1 Installation of „WIBU CodeMeter User Runtime for Windows“

FactoryViews uses the CodeMeter Runtime to access CodeMeter-based licenses. The licenses can be integrated on a USB dongle or via a license file.

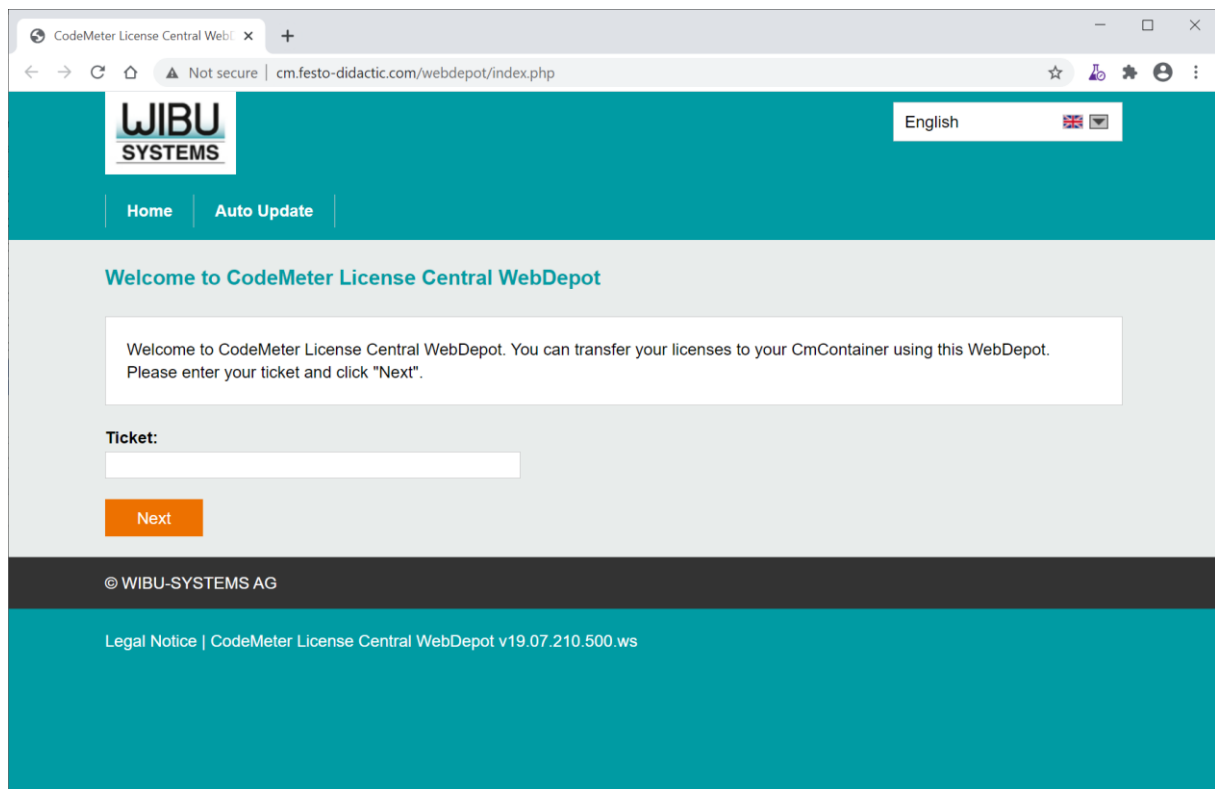
Note: Administrator rights are required for installing the CodeMeter User Runtime.

Download “WIBU CodeMeter User Runtime for Windows” from the manufacturer's homepage and install it, if not already installed on your PC.

Link to download page: <https://www.wibu.com/support/user/user-software.html>

1.2 Activate licenses

Open the WebDepot via <http://cm.festo-didactic.com/webdepot/index.php>



The screenshot shows a web browser window with the URL cm.festo-didactic.com/webdepot/index.php. The page features the WIBU SYSTEMS logo in the top left and a language selector set to English in the top right. Below the logo are navigation links for 'Home' and 'Auto Update'. The main content area is titled 'Welcome to CodeMeter License Central WebDepot' and contains a message: 'Welcome to CodeMeter License Central WebDepot. You can transfer your licenses to your CmContainer using this WebDepot. Please enter your ticket and click "Next".' Below this message is a 'Ticket:' label, a text input field, and an orange 'Next' button. The footer includes the copyright notice '© WIBU-SYSTEMS AG' and the version information 'Legal Notice | CodeMeter License Central WebDepot v19.07.210.500.ws'.

Enter a ticket of a license to be activated and click “Next”.

The screenshot shows a web browser window with the URL `cm.festo-didactic.com/webdepot/index.php`. The page features the WIBU SYSTEMS logo in the top left and a language selector set to 'English' in the top right. A navigation bar contains 'Home' and 'Auto Update' links. The main content area is titled 'Welcome to CodeMeter License Central WebDepot' and contains a white box with the text: 'Welcome to CodeMeter License Central WebDepot. You can transfer your licenses to your CmContainer using this WebDepot. Please enter your ticket and click "Next".' Below this is a 'Ticket:' label, a text input field containing '66589-YNTK9-BUPKV-GRK78-XUYT4', and an orange 'Next' button. The footer includes '© WIBU-SYSTEMS AG' and 'Legal Notice | CodeMeter License Central WebDepot v19.07.210.500.ws'.

Click on “Activate Licenses”.

The screenshot shows a web browser window with the URL `cm.festo-didactic.com/webdepot/overview.php`. The page features the WIBU SYSTEMS logo in the top left and a language selector set to 'English' in the top right. A navigation bar contains 'Home', 'My Licenses', and 'Auto Update' links. The main content area is titled 'My Licenses' and contains a table with the following data:

Name	Activated On	CmContainer	Status
MES4 V3 Master <small>(License Quantity: 1)</small>	-		Available

Below the table is an orange 'Activate Licenses' button. The footer includes '© WIBU-SYSTEMS AG' and 'Legal Notice | CodeMeter License Central WebDepot v19.07.210.500.ws'.

Click on "Activate Selected Licenses Now".

CodeMeter License Central WebUI | cm.festo-didactic.com/webdepot/get.php

WIBU SYSTEMS | English

Home | My Licenses | Auto Update

Available Licenses

To activate your licenses:

1. Select the licenses you want to activate.
2. Select the locally connected CmContainer to which you want to transfer the licenses.
3. Click "Activate Selected Licenses Now".

Name	Activated On	CmContainer	Status
<input checked="" type="checkbox"/> MES4 V3 Master <small>(License Quantity: 1)</small>	-		Available

Select CmContainer: 130-1765561707 (UFC CmActLicense FestoDidactic)

Activate Selected Licenses Now File-based license transfer

[My Licenses](#)

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CodeMeter License Central WebUI | cm.festo-didactic.com/webdepot/get.php

WIBU SYSTEMS | English

Home | My Licenses | Auto Update

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Activate Selected Licenses Now File-based license transfer

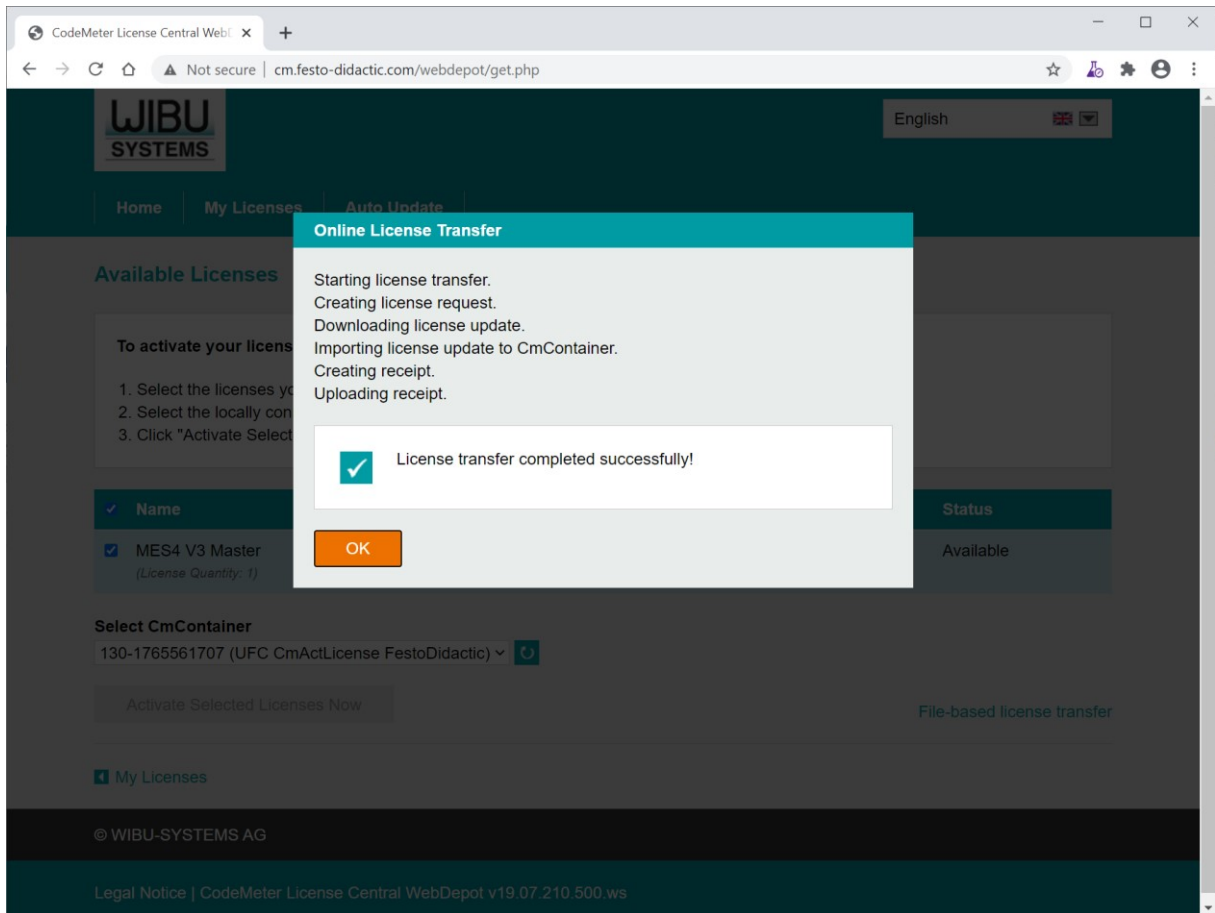
[My Licenses](#)

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Online License Transfer

! Please wait! The selected licenses are transferred. **This process may take several minutes to complete.** Please do not remove the CmContainer during this process and do not reload this page.

Starting license transfer.
Creating license request.
Downloading license update.



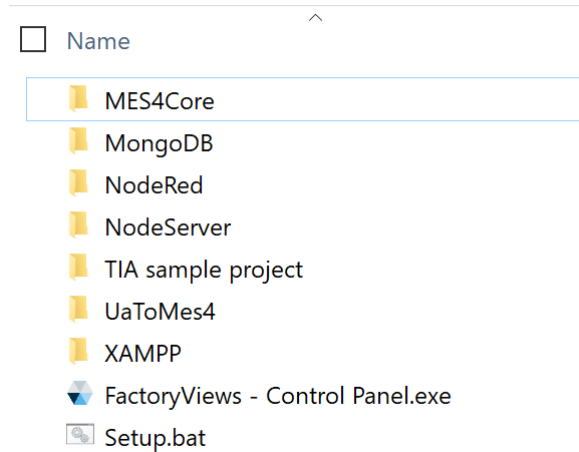
The license activation is complete.

Repeat the steps for all tickets of licenses to be activated.

1.3 Extract

Run "FactoryViews.exe" to extract the files a local drive with write access, e.g. to C:\Festo
Note: For extraction, a valid license of FactoryViews app (e.g. MES4 V3) must be activated.

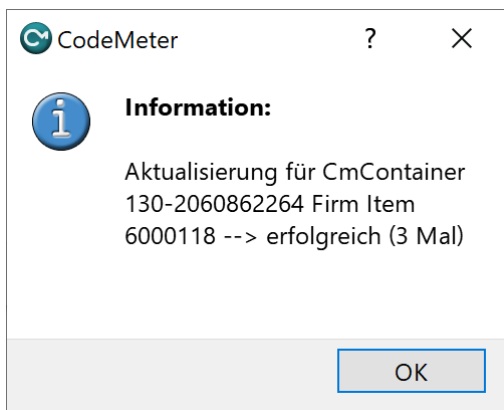
› Local Disk (C:) › Festo › FactoryViews



1.4 Setup

Start the file "Setup.bat". Two actions are executed:

1. A license to run FactoryViews is automatically updated in CodeMeter if necessary. This license is independent of your MES4 licenses or licenses for additional apps and serves to protect the software. Confirm this update.



Note: If this is not performed automatically, add the license manually calling "NodeServer\NodeServer-ProtectionOnlyLicense.WibuCmRaU"

2. Path information for the web and database server are adapted to your local copy. Type “1” and “Enter” to perform the update.

```
C:\WINDOWS\system32\cmd.exe

#####
#
#           XAMPP USB Stick Installation           #
#
#####

#####
# ApacheFriends XAMPP setup win32 Version           #
#-----#
# Copyright (c) 2002-2020 ApacheFriends ?.?.?       #
#-----#
# Authors: Kay Vogelgesang <kvo@apachefriends.org>    #
#           Carsten Wiedmann <webmaster@wiedmann-online.de> #
#####

USB stick installation found! Using relative paths by default (\Festo\FactoryV
iews\XAMPP).
Do you want to refresh the XAMPP installation?
Soll die XAMPP Installation jetzt aktualisiert werden?

1) Refresh now! (Jetzt aktualisieren!)
x) Exit (Beenden)
1
```

Then terminate the setup with any key.

```
C:\WINDOWS\system32\cmd.exe

#           Carsten Wiedmann <webmaster@wiedmann-online.de>           #
#####

USB stick installation found! Using relative paths by default (\Festo\FactoryV
iews\XAMPP).
Do you want to refresh the XAMPP installation?
Soll die XAMPP Installation jetzt aktualisiert werden?

1) Refresh now! (Jetzt aktualisieren!)
x) Exit (Beenden)
1

XAMPP is refreshing now ...
XAMPP wird nun aktualisiert ...

Refreshing all paths in config files ...

Configure XAMPP with awk for 'Windows_NT'
Updating configuration files ... please wait ... DONE!

##### Have fun with ApacheFriends XAMPP! #####

Drücken Sie eine beliebige Taste . . .
```

If you move the “FactoryViews” directory later, the setup must be run again.

2 Starting FactoryViews and MES4 V3

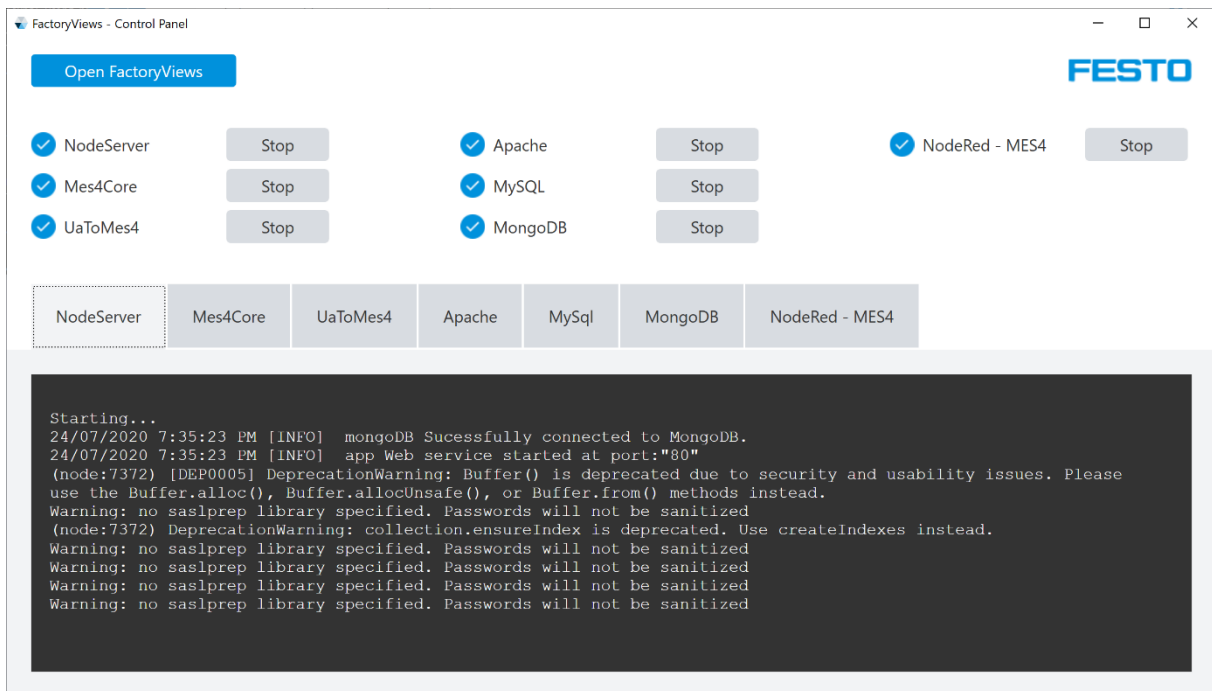
2.1 Starting FactoryViews Control Panel

Run „FactoryViews - Control Panel.exe“.

The following services are automatically started depending on the configured range of functions:

Service	Description
NodeServer	HTTP web server for FactoryViews apps
Mes4Core	MES4 services for communication via TCP/IP and to the database
UaToMes4	MES4 interface for OPC UA (Data Access)
Apache	HTTP web server for FactoryViews apps
MySQL	SQL database server for FactoryViews apps
MongoDB	NoSQL database server for FactoryViews apps
NodeRed - MES4	Node-RED application for additional MES4 services
NodeRed - Webshop	Node-RED application to connect the Webshop to MES4

The configuration which apps are loaded at startup can be found in the file “FactoryViews \ NodeServer \ config.jsonc” in the section “apps”.



All services must be started successfully (blue check icon).

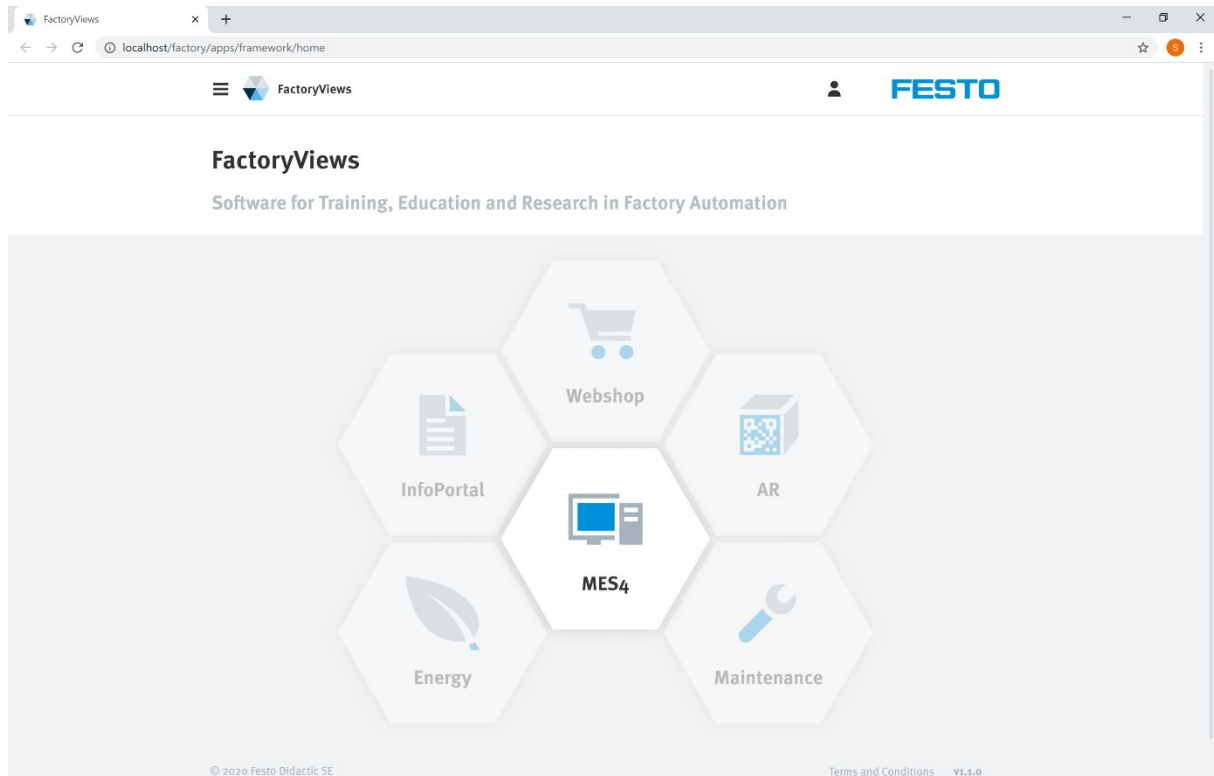
Otherwise stop any running services on your system, e.g. web or database server and restart the services in the control panel, or the Control Panel if needed.

When the software is started for the first time, the operating system may offer to create firewall rules. The creation is only required if the software is to be accessed from devices within the network. For purely local use, the firewall suggestions can be cancelled.

2.2 Starting FactoryViews user interface

Open the user interface by

- selecting „Open FactoryViews“ on the Control Panel, or
- navigating to <http://localhost> or <http://127.0.0.1> or <http://172.21.0.90>, depending on your network settings.

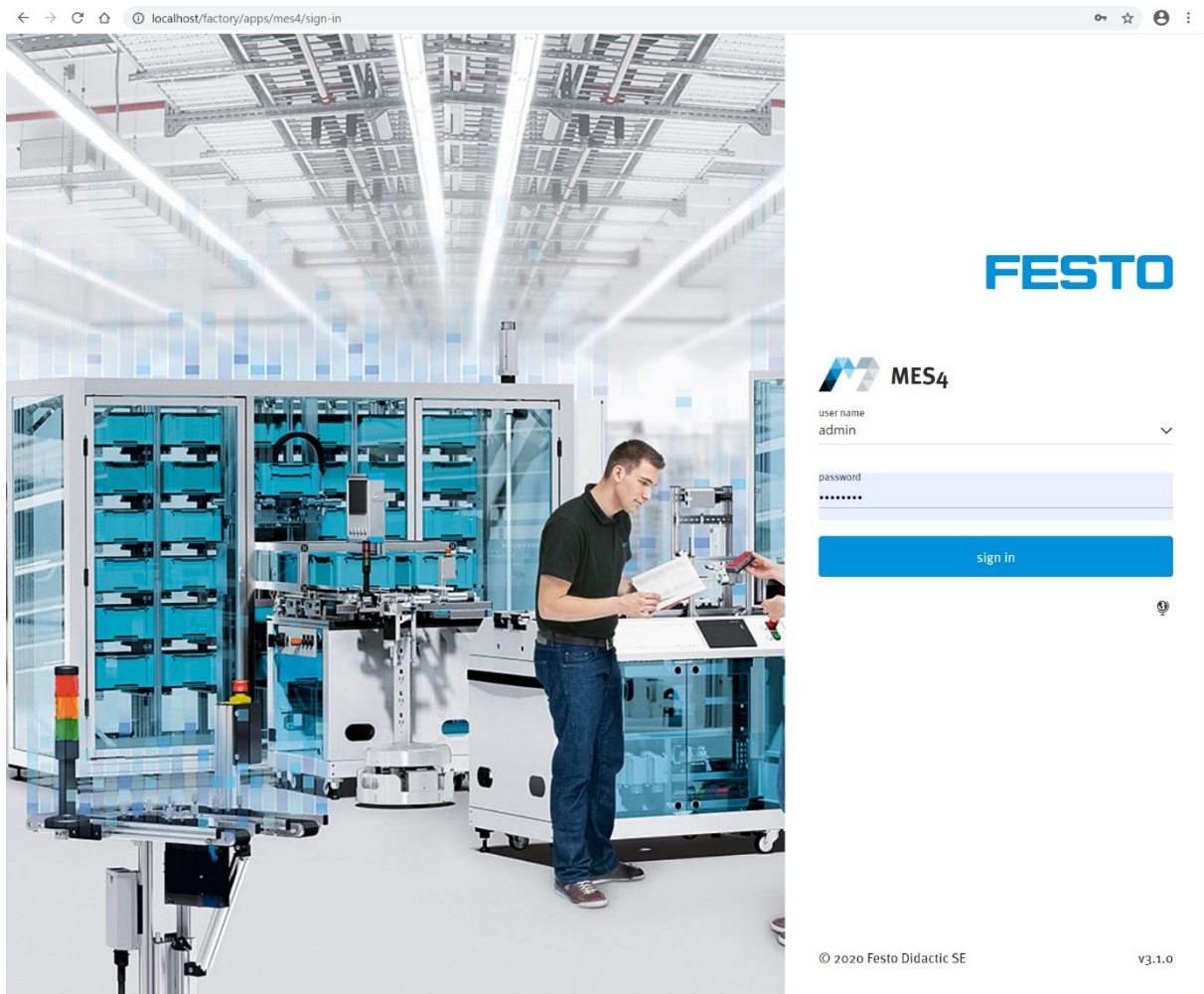


2.3 Starting MES4 V3

Select “MES4” in FactoryViews.

The following logins are available:

Name	Password
user	Festo4.0
admin	Festo4.0
admin-lite	Festo4.0



The logins have the following authorizations in the various views:

View	Action	user	admin	admin-lite
System	Show	■	■	■*)
	Add		■	■
	Change		■	■
	Activate		■	■
	Delete		■	■
	Import		■	■
	Export		■	■
	Parts	Show	■	■
Test workplan		■	■	■
Add			■	■
Duplicate			■	■
Change			■	■
Delete			■	■
Orders	Show	■	■	■
	Show status	■	■	■
	Add	■	■	■
	Import	■	■	■
	Change step status		■	■
	Delete		■	■
Operation	Show	■*)	■*)	
Queries	Show	■	■	■
	Add		■	■
	Duplicate		■	■
	Change		■	■
	Delete		■	■

*) Start view after login

3 Backup and Restore

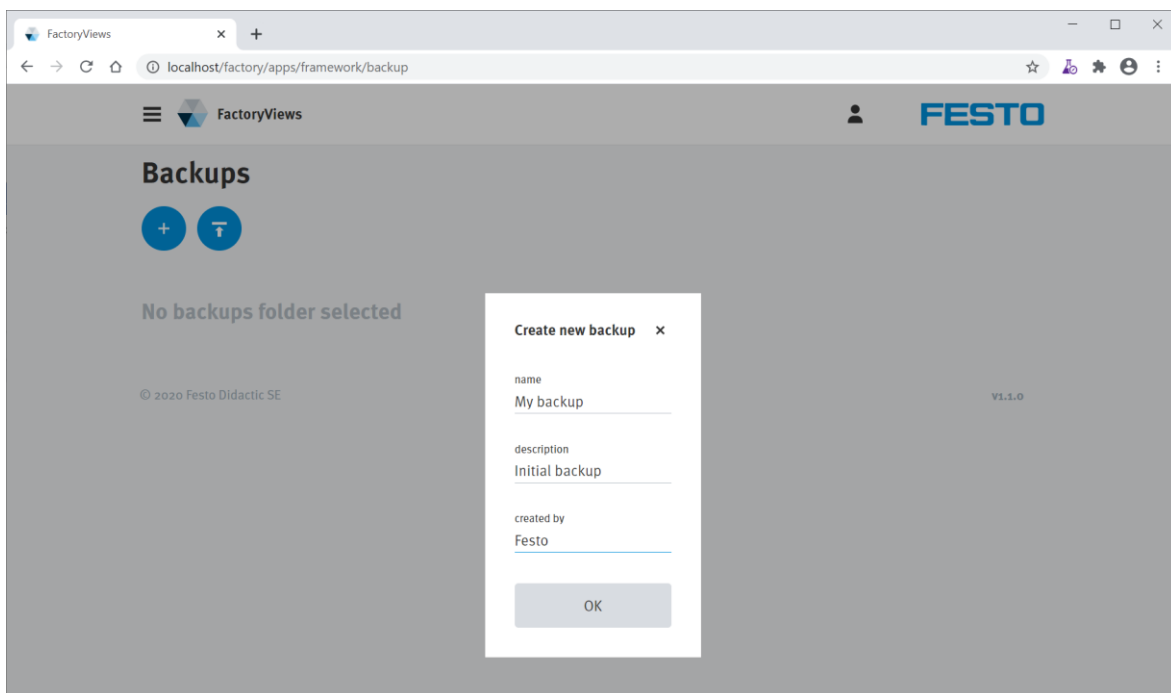
3.1 Scope of backup

The current status can be saved in an fdb file using the “Backup” function.
This includes

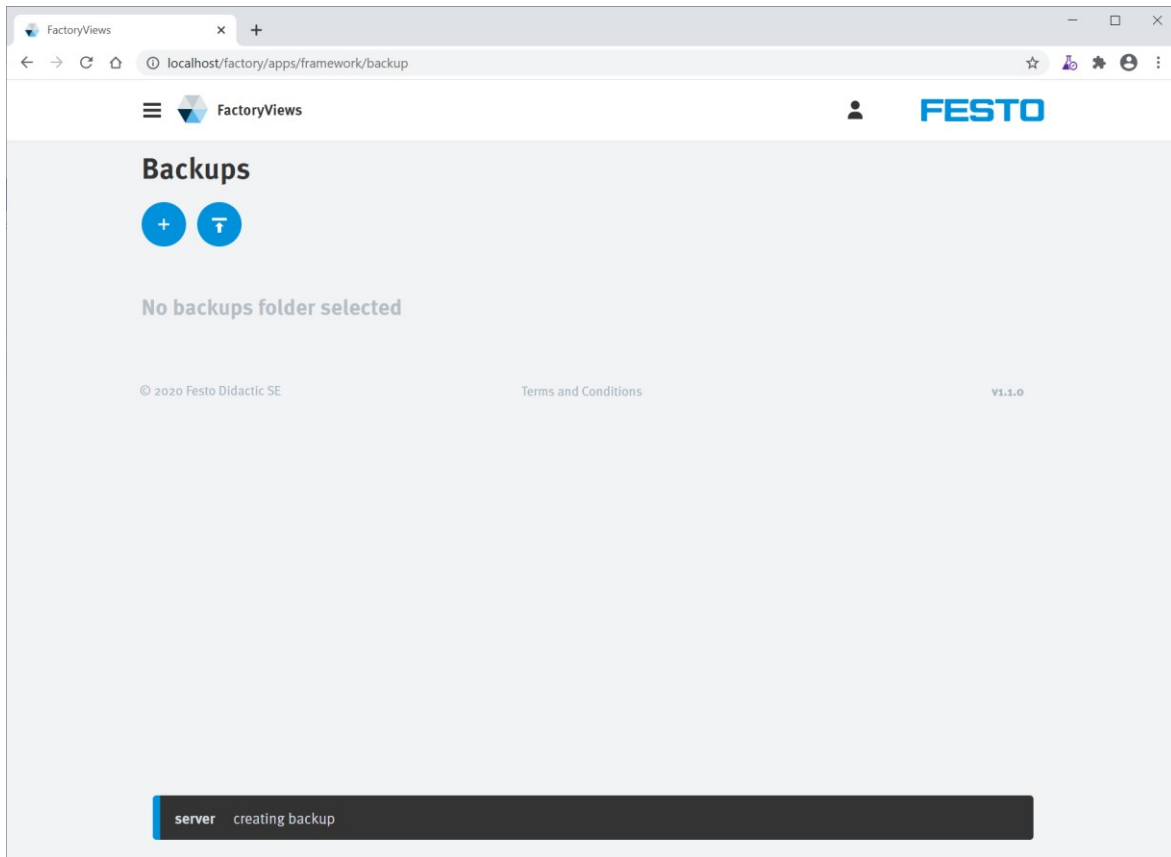
- FactoryViews framework: All app links including texts in all languages
- MES4 V3: Complete databases (MariaDB + MongoDB) including system configuration, workpieces, orders, database queries, station templates as well as all texts and program messages in all languages.

3.2 Backup

Click on “Backup and restore” in the menu, “new backup” and enter the name, description and creator information.



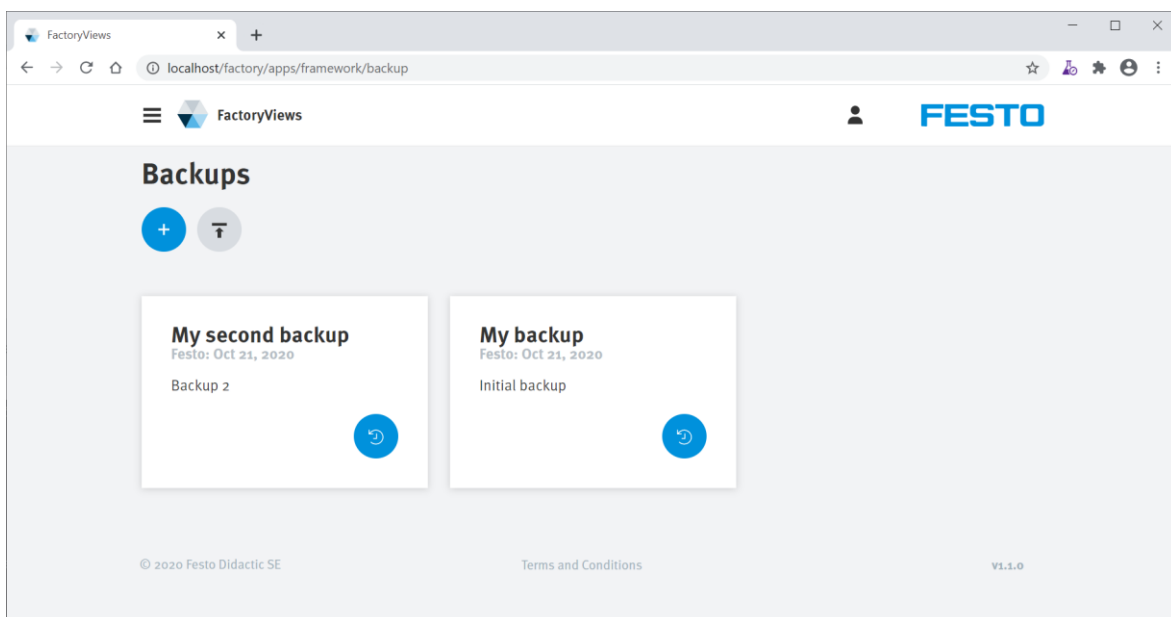
Then click on “OK”.



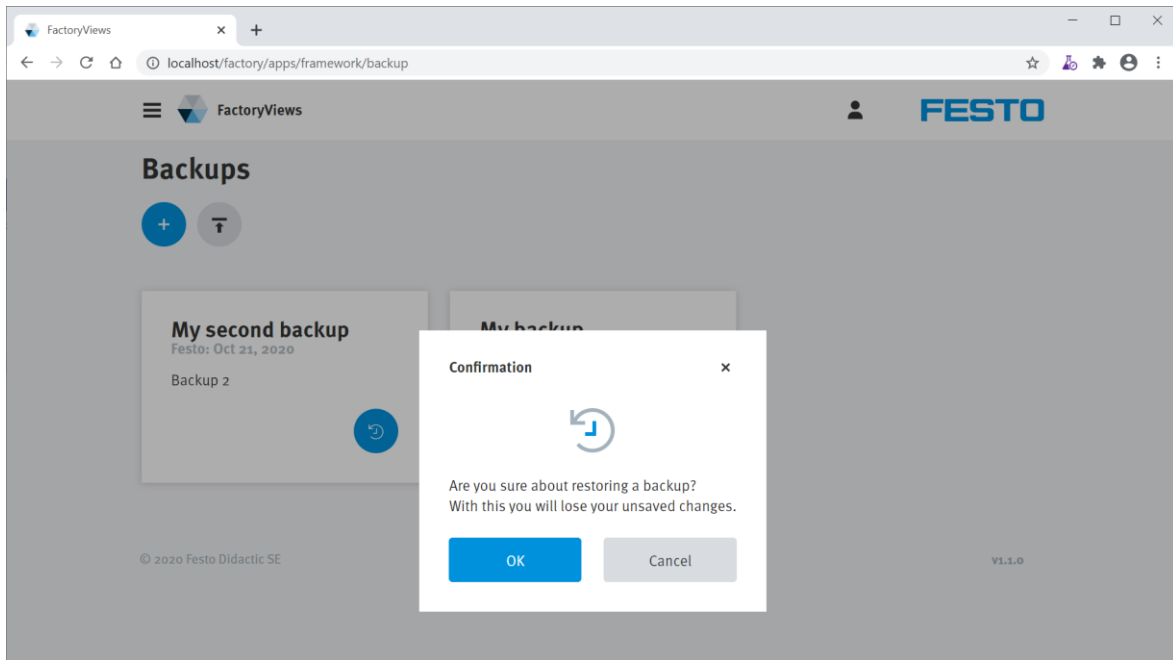
The backup has been created and downloaded.

3.3 Restore

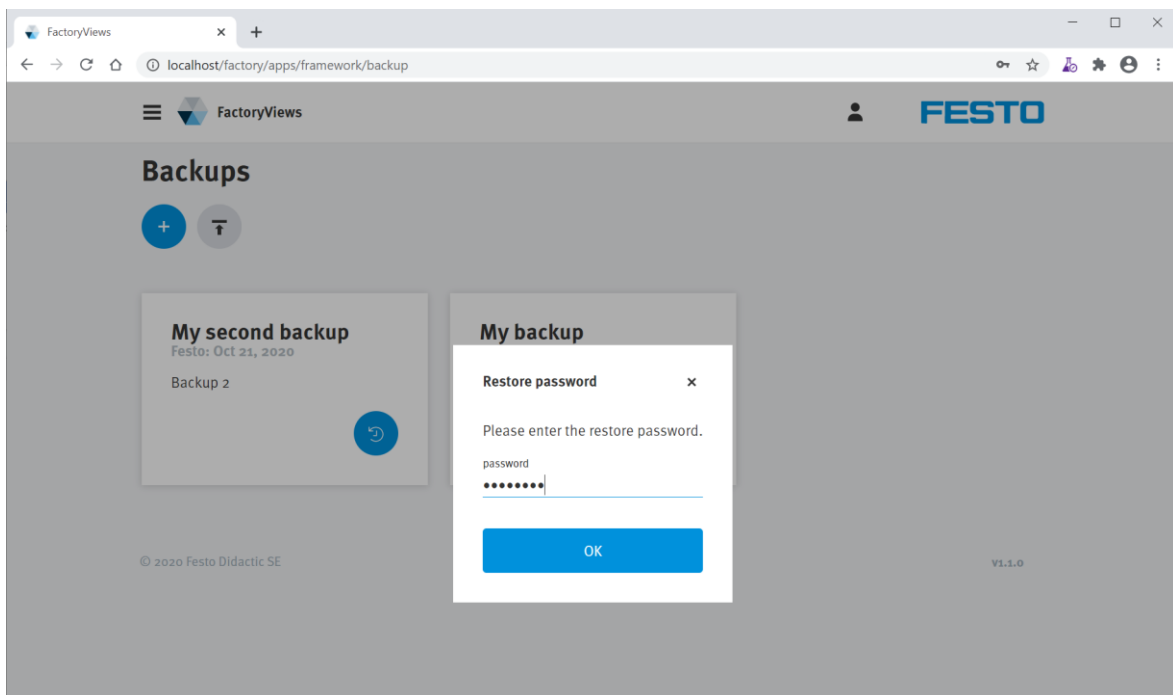
To restore, click Upload Data on the Backup and Restore menu and select one or more fdb backup files. Details about the backups are displayed.



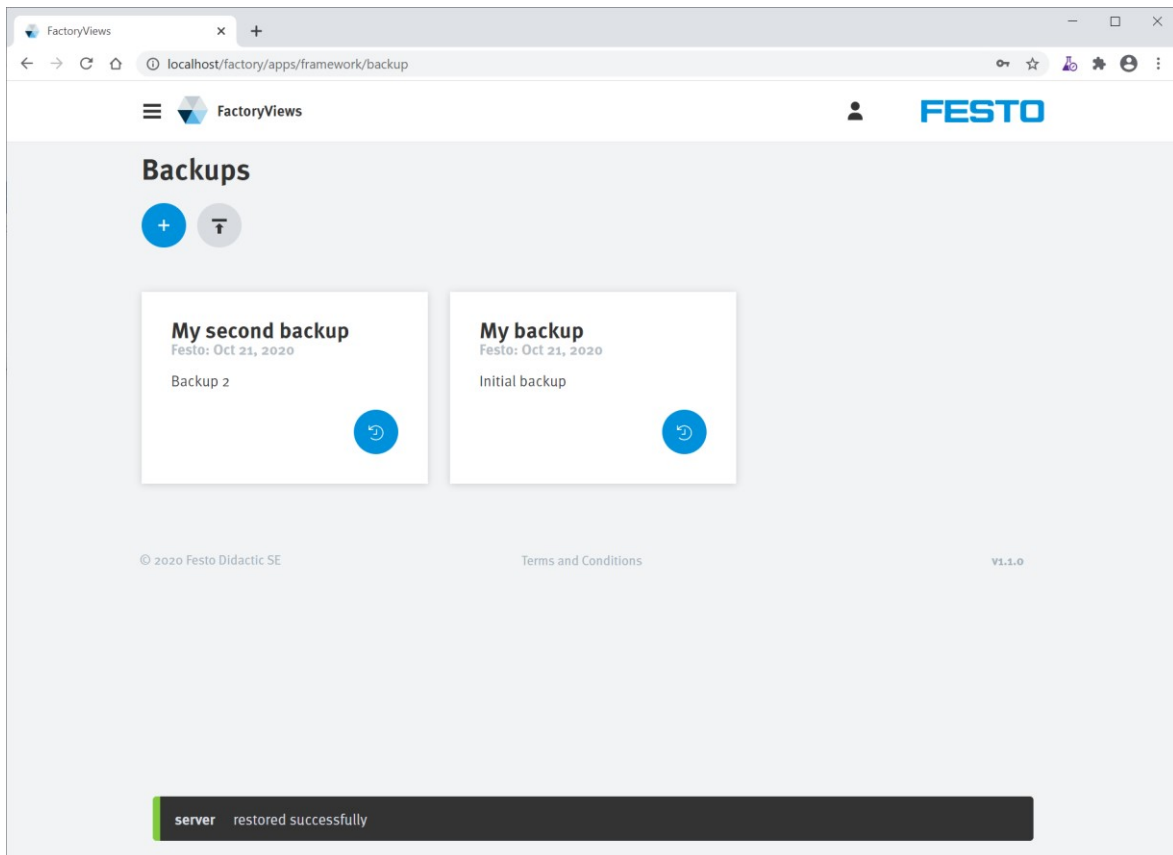
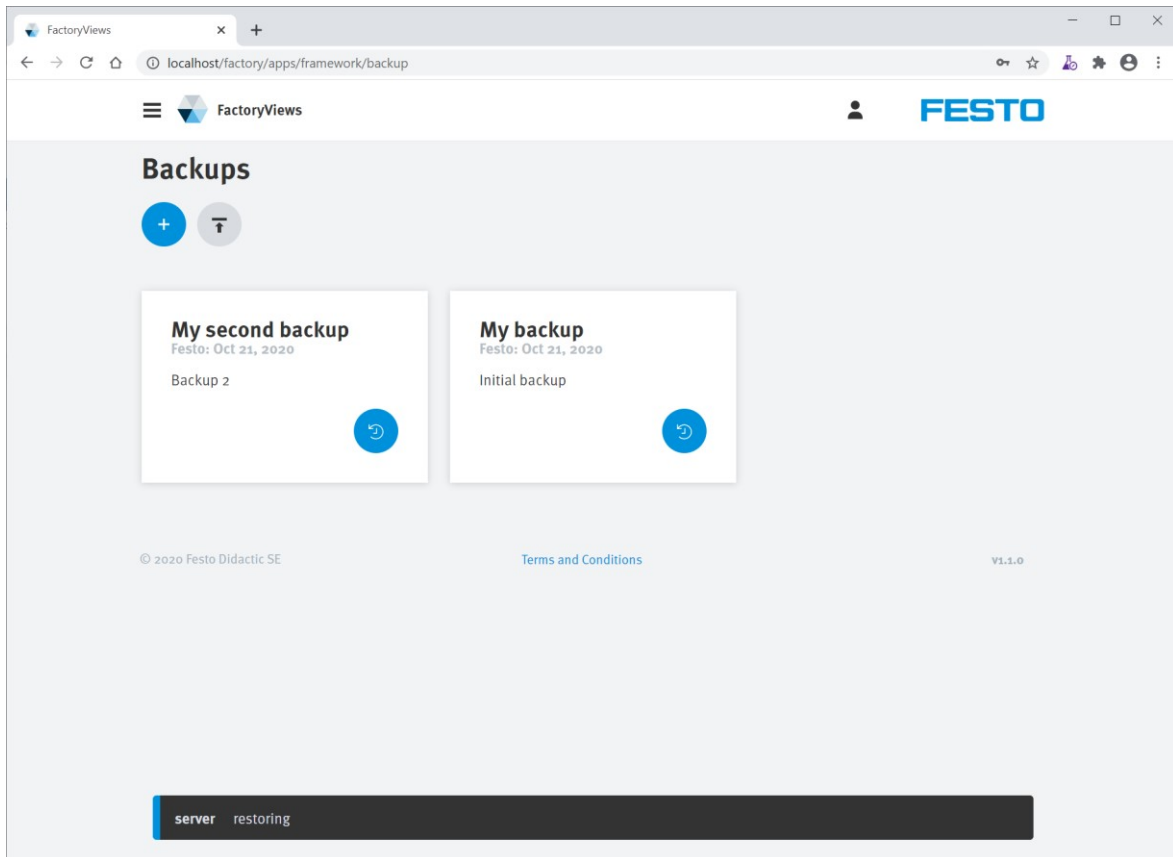
On one backup card click “restore”.



Confirm with „OK“.



Enter the password "Festo4.0" and confirm with "OK".



The saved state has been restored.

4 Terminating FactoryViews

To terminate the application, close the browser windows and the FactoryViews Control Panel.