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Manual

Local Test Box

Version 2026-11-10

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1. Purpose and Contents

This guide is designed to assist you with the installation and utilization of the *Local Test Box* (*LTB*).

The *LTB* provides a platform to visualize OFML data in *pCon.box* and *pCon.basket* directly from your local workstation. It's primary role is to test OFML data for online environments powered by EAIWS, including platforms like *pCon.box*, *pCon.basket* online and *pCon.facts*. As such, it proves invaluable for projects focusing on OFML data creation.

It's crucial to note that OFML data can behave inconsistently across online and offline applications. An item may appear flawless in *pCon.planner* but may present issues in *pCon.box*. Solely testing in *pCon.planner* could lead to overlooking specific OFML data issues in online platforms until post-publication.

Given these potential discrepancies, it's advisable to employ the *LTB* as your local testing hub during data generation and prior to publishing your OFML data. The *LTB* setup package encompasses all essential components, ensuring a seamless and straightforward installation process.

Local Test Box is always available for the versions of *pCon.box* and *pCon.basket* online published on *pCon-cloud* with a slight delay of a few days.

Important!
Please always make sure that you are using the **latest version** before working with the *Local Test Box*.

Permalink latest version:
https://download-center.pcon-solutions.com/?p=1070

2. Requirements

The installation should not require any technical knowledge of the *Local Test Box* and should demand as little as possible from the user.

The following platforms are supported by the *Local Test Box*:

- Windows 11

On the other hand, they are not supported:

- Other Windows versions
- MacOS
- Linux

Note on Use Without Administrator Rights

The Local Test Box can be used by users without administrator privileges at runtime. To enable this, the application must not be installed in the %ProgramFiles% directory. During installation, select a user-accessible path in the "Destination Folder" dialog, such as a folder in the user profile (%USERPROFILE%\Local Test Box).

Note: Administrator rights are still required for installation

For Local Test Box installation you need at least 5GB free disk space:

- 1 GB space for the application files
- 2 GB space for temporary installer files

Additional storage space is required for content generated at runtime. The volume of this content can amount to several gigabytes over the course of time and is dependent on

- Intensity and duration of use
- Amount of OFML data used

The installation of the *Local Test Box* does not affect the registration of the OFML data in the applications. The data registration is therefore up to the user.

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However, for the correct display and functionality of the OFML data in the *pCon.box*, it is necessary to unpack the source data from the zip archives.
If the *Local Test Box* detects packed data sets on startup and offers the automatic unpacking.

As long as no OFML data is registered in the *Local Test Box*, the application cannot be used.

3. Installation checklist

- ✓ Run setup
- ✓ Unlock license key with *EGR-LicenseClient*
  - License for *pCon.update DataClient*, if not activated via *pCon.login*
  - License for *Local Test Box*
- ✓ Register OFML data (see section "Data registration")
- ✓ Test installation
  - Start *Local Test Box*
  - Open *pCon.box or pCon.basket online* via '*Start*' button
  - Open catalog selection in the *pCon.box*



  - Search for articles in the catalog selection
  - Insert & configure article
  - Call article list

4. Components included

- *Server-Component (EAIWS)*

  EAIWS forms the basis for a number of online applications from *EasternGraphics*, e.g. *pCon.box*, *pCon.facts* as well as *pCon.basket online* and provides interpretation of OFML data. OFML data to be tested is registered in the *EAIWS*.

- *License server (EAILS*)

  EAILS holds the license for *EAIWS*. Without a valid license and active *EAILS*, *EAIWS* cannot be started successfully.

- *pCon.box*

  The *pCon.box* is a web application to display and configure OFML data from the *EAIWS*. *pCon.box* covers the largest scope of display and functions compared to the other online GUIs and is therefore particularly suitable for testing your OFML data.

- *pCon.basket online*

  The *pCon.basket online* is also a web application to display and configure OFML data from the *EAIWS*. *pCon.basket online* has special focus on commercial functionality and can be used to test extra charges in the OFML-Data.

- *pCon.update DataClient*

  The DataClient is the application for importing OFML data, which must be available as update packages. Update packages can be created with the *module* of *pCon.creator* or the *EGR-DataBuilder* (current version strongly recommended). In this case, Pro license of the *pCon.update DataClient* is required.
  Manual import and registration of OFML data in *LTB* is also possible without *pCon.update DataClient*.

- *EGR-LicenseClient*

  The tool for automatically importing and unlocking *EAI* licenses via internet is required for licensing *DataClient PRO* and *EAIWS*. You may therefore need 2 license keys, which you will receive with delivery of the *Local Test Box*.

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- *ToolBox* for *Local Test Box*

  In addition to user interface, this component also contains other tools to help control the components listed above. The user interface is started via the "*Local Test Box*" desktop shortcut.

5. After installation

After successful installation, the *Local Test Box* does not yet contain any program license or OFML data at this time.

License

Setup of *Local Test Box* does not bring its own license. The activation of a license via *EGR-LicenseClient* is necessary. You will find the necessary license keys in the delivery note.

Alternatively, a .lic file can be manually imported into the program folder of the license server (*EAILS*).

The license is provided as a `.lic` file and can typically be found in the EAILS installation directory at:
`%ProgramFiles%\EasternGraphics\EAILS\etc\licenses`
Please note that this path may have been modified during the (initial) installation.

Data Registration

The registration of OFML data in the server component (*EAIWS*) is done automatically during the installation. The prerequisite for this is that another OFML application from *EasternGraphics* (e.g. *pCon.planner*) is already installed on the system and has a data registration. In this case, data registration is taken over from existing OFML application.

> **Attention**:
> Only unzipped OFML data can be displayed error-free in *pCon.box (zip files have to be unzipped)*. If the *Local Test Box* detects packed data sets, it offers automatic unpacking.

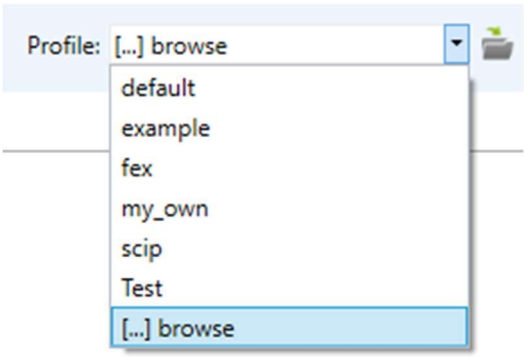
Data Registration via *pCon.update DataClient*

Importing update packages (from *pCon.creator ORG-module* or *EGR-DataBuilder*) via *DataClient* is possible as follows:

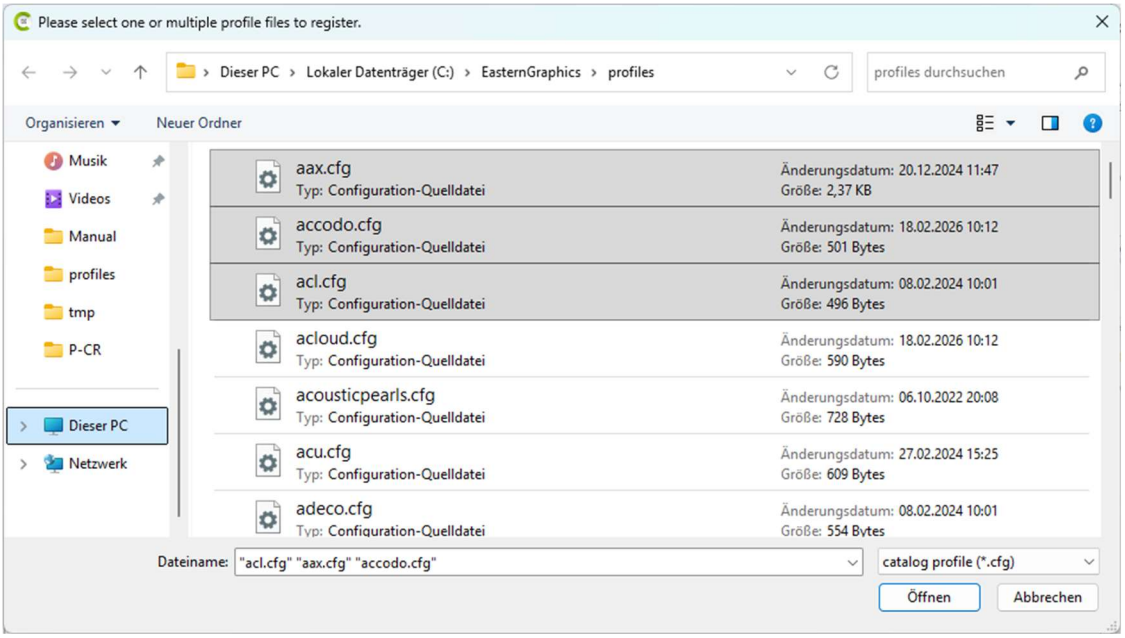
1. Specify the path to *ORG-module* packages in *pCon.update DataClient* under "*Settings*" > "*Network*" > "*Server*" under "*Server address*"

2. Start *DataClient* and click "*Next*" several times until data is installed

Data registration via file browser



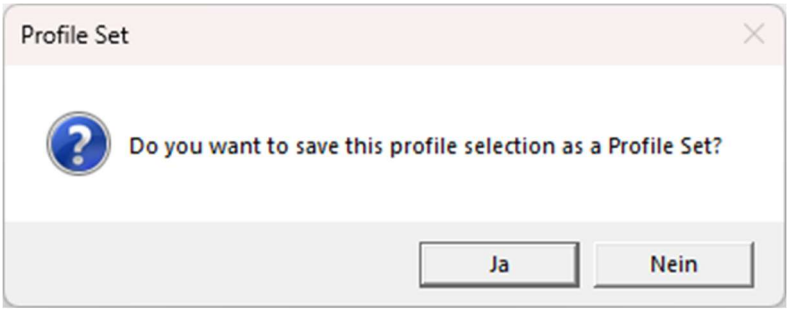
Data registration via file browser is done by selecting startup profile "[...] browse" in the list or the folder symbol behind the drop-down menu. A file selection dialog appears. There you have the possibility to select one or more data profiles. The selected data profiles are then entered in "*[...] browse.cfg*" after leaving the file selection dialog.

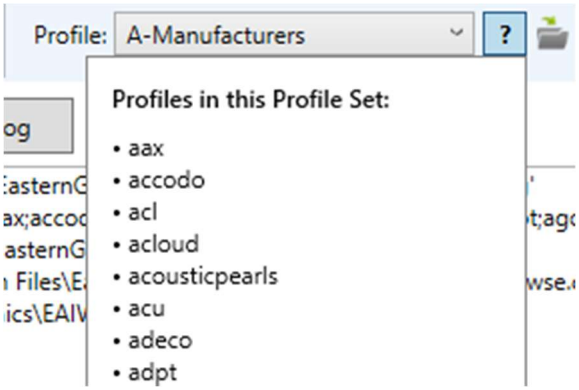


Profile Sets

Using **Browse**, multiple profiles can be selected and saved as a **Profile Set** with a custom name. Saved Profile Sets are then available directly in the profile selection and can be reused at any time.

Click the **?** next to a selected Profile Set to display the profiles contained in the set.





Delete a Profile Set

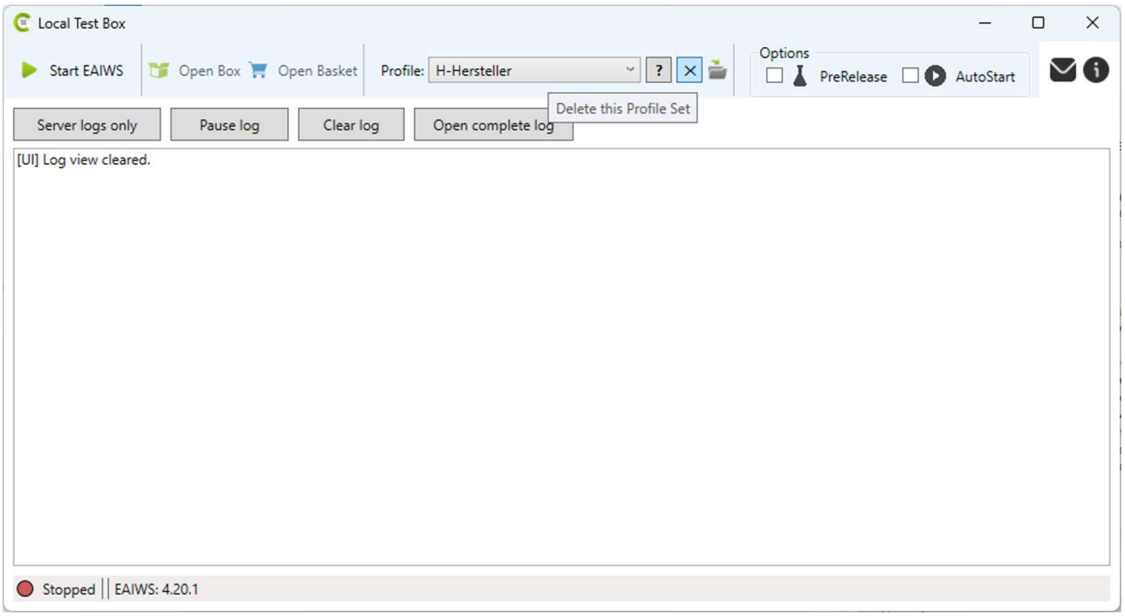
Saved Profile Sets can be deleted directly in the Local Test Box when they are no longer needed.

To delete a Profile Set, select it from the **Profile** dropdown list and click the **X** button (Delete this Profile Set) next to the profile selection.

The selected Profile Set will be removed from the list of saved Profile Sets.

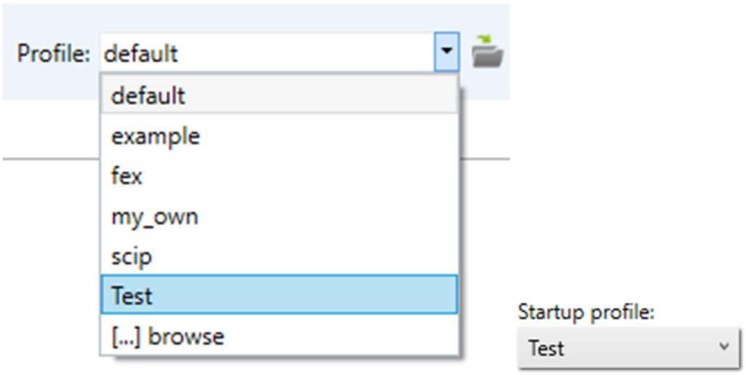
Screenshot: Delete Profile Set button

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Manual data registration

The manual data registration is done via a startup profile (*.cfg), in program folder *EAIWS* under "*etc**startup*" e.g. "*test.cfg*". The name of the startup profile must then be entered in the user interface in the "*Startup*" text field.



Experienced users can manually enter values for data registration in this startup profile, for example.:

```
app.framework.locale=de_DE
app.gf.data.profile=default;hex
app.gf.data.profile.path=C:\EasternGraphics\profiles
app.basket.currencies=currencies
```

```
Or:

app.framework.locale=de_DE
app.gf.data.profile=default
```

```
app.gf.data.profile.path=C:\EasternGraphics\profiles
app.gf.data.profile.registration= C:\EasternGraphics\profiles\test.profiles
app.basket.currencies=currencies
```

In this *test.profiles* (example name) the data profiles to be used are entered:

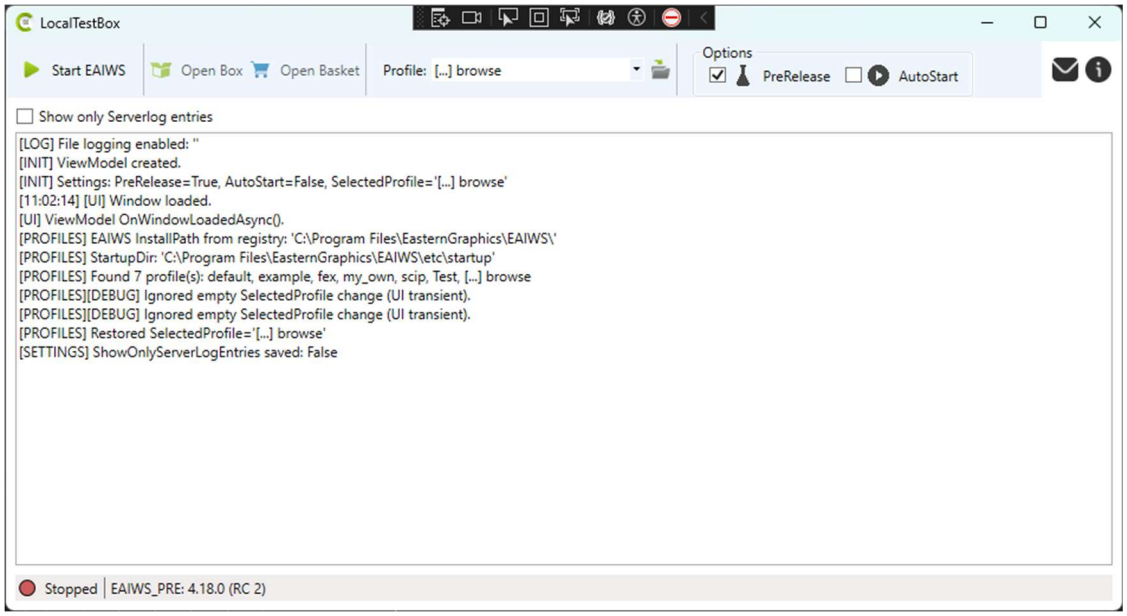
app.gf.data.profile = xyx;xyz

xyx.cfg is exemplary and designates the data profile of the respective OFML catalog. The corresponding profile must then be placed parallel to *test.profiles* file, i.e. in the same folder where *test.profiles* file is located.

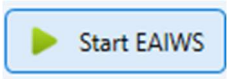
"*test.profiles*" can be created manually as a text file (also without "*.txt*").

The correct path to OFML data is entered in the specified data profiles.

6. User interface



The user interface is used to control the components of Local Test Box. Furthermore, the detailed log of server component can be read out, the data profile can be adjusted, versions of the components of *LTB* can be displayed and an e-mail can be sent to *EasternGraphics* support.

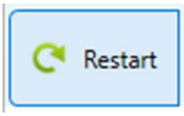


Start EAIWS (Start/Restart)

With **Start EAIWS** you start the local EAIWS server using the currently selected configuration.

- **When visible:** The button is shown as **Start** when the server is not running. (As soon as the server is running, it is replaced by the split button with **Restart** and **Stop**.)
- **What happens when you click:**
  - Local Test Box stops/initializes and starts the server in one sequence (including log initialization).
  - The server startup runs “in the background”; the button is disabled during this time to prevent double starts.
  - The log output in the large log field shows the full startup sequence and possible root causes if something fails.
- **Which settings affect startup:**
  - **Profile:** The selected profile is used for startup (and is also included in the URL when opening Box/Basket).
  - **PreRelease:** If enabled (and EAIWS_PRE is installed), the PRE channel is started; additionally, a startup-profile sync may be offered before starting.
- **Result/feedback:**
  - In the status bar you can see the current server status (e.g. Starting/Ready/Error) and the server version in use.

- If no valid license is available, an error message is shown and startup fails.



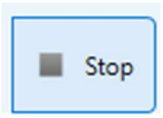
Button Restart EAIWS

With **Restart EAIWS** you restart the EAIWS server without having to close the application. This is useful if you want to test a new startup profile or if the server is stuck in an undefined state.
Behavior:

- Stops the currently running server (Stop/Shutdown).
- Starts the server again immediately afterwards.
- Server actions are disabled during restart to prevent double starts.
- Progress and all messages appear in the log window; the status changes accordingly in the status bar (e.g. Starting … → Server ready or Error).

Note: After a restart you can use **Open Box / Open Basket** as usual once the status is **Server ready** again.

Note:
For **updated OFML data** to take effect, the server component must be restarted (via **Stop/Start or Restart**) after every update—regardless of whether the update was performed through **pCon.update** or via a manual import. This restart **ensures data consistency** and helps prevent errors during data installation.

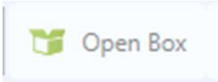


Button Stop EAIWS

With **Stop EAIWS** you fully stop the running EAIWS server. This is useful if you want to stop the server intentionally (e.g. to free resources or reset the state cleanly).
Behavior:

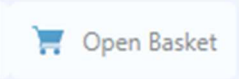
- Stops the server and related modules (internally via StopAll).
- Terminates related Java processes if needed (e.g. LicenseServer.jar, EAI-Server.jar) to ensure nothing is still running.
- Server actions are disabled during the stop operation.
- The status is updated in the status bar (typically Stopping … → Stopped); details are shown in the log window.

Note: While the server is stopped, **Open Box** and **Open Basket** are disabled because no server session is available.



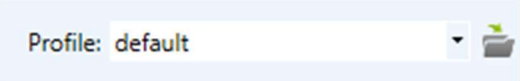
Open Box
Opens pCon.box in the default browser, including passing the selected startup profile.

- The button is only enabled if the server started successfully and is **Ready**.
- The application opens a local URL (http://localhost:8080/...) and passes the profile as a parameter.



Open Basket
Opens pCon.basket in the default browser, including passing the selected startup profile.

- The button is only enabled if the server started successfully and is **Ready**.
- The application opens a local URL (http://localhost:8080/pCon.basket/...) and passes the profile as a parameter.



Profile selection (dropdown) + Browse button (to the right)
Profile selection (Profile dropdown)
Use the **Profile** dropdown to choose which startup profile EAIWS starts with and which configuration is used when opening pCon.box / pCon.basket.
The list is loaded automatically at startup from the EAIWS installation directory (startup profiles). Typical entries are **default**, project-specific profiles, and the special entry **[...] browse**.

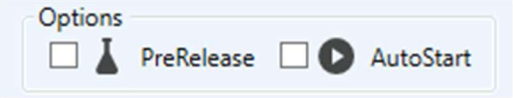
- **Normal profiles** (e.g. default): are applied directly and saved as the current selection.
- **[...] browse:** is a special profile that is not based on a fixed file, but is assembled via a file selection dialog (see Browse button).

Browse button (folder/file icon next to the dropdown)
The **Browse** button opens a file dialog where you can select one or more .cfg files. Based on that selection, the **[...] browse** profile is updated automatically (the selection is written into the corresponding [...] browse.cfg).
This is intended for quickly combining configurations for testing without creating a dedicated fixed startup profile in the startup folder.

- Multi-selection is allowed (you can select multiple CFG files).
- Canceling the dialog discards the selection; the profile selection then switches back to the last selected “normal” profile.

Note: UAC / PowerShell prompt when writing (expected)
Depending on the installation path and Windows permissions, updating the [...] browse.cfg may trigger a UAC prompt. You may also see PowerShell being started.
This is correct and intended: in some installations elevated rights are required to write or modify files in the EAIWS startup directory. In that case, writing/updating the file must be performed with administrator privileges.

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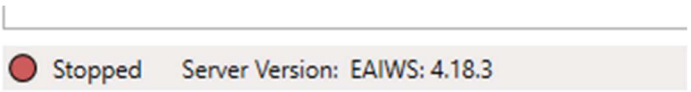
PreRelease (checkbox)
If **PreRelease** is enabled, the application uses the **EAIWS_PRE** channel instead of the regular EAIWS channel.

- The checkbox is only visible if EAIWS_PRE is installed (registry key exists).
- If EAIWS_PRE is not installed, PreRelease is forcibly disabled internally (even if a saved value is incorrectly “true”).
- If PreRelease is enabled, a synchronization of startup profiles between EAIWS and EAIWS_PRE may be offered during restart (depending on differences and write permissions).

Note: UAC / PowerShell prompt when writing (expected)
Depending on the installation path and Windows permissions, synchronizing profiles / updating [...] browse.cfg may trigger a UAC prompt. You may also see PowerShell being started.
This is correct and intended: in some installations elevated rights are required to write or modify files in the EAIWS startup directory. In that case, writing/updating must be performed with administrator privileges.

AutoStart (checkbox)
If **AutoStart** is enabled, the application starts the server automatically as soon as the main window has loaded.

- AutoStart is saved and applied again on the next launch.
- The log records that AutoStart is enabled and that startup was initiated automatically.



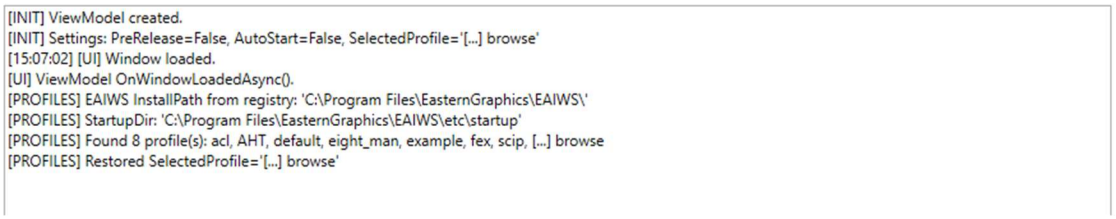
Status bar
The status bar shows two things: server status and the selected EAIWS version.
Server status

- A colored indicator (ellipse) signals the status visually.
- A text label describes the status (e.g. “Stopped”, “Starting”, “Ready”, “Error”).
- During startup, an additional progress indicator is displayed.

EAIWS version
The version of the active channel is shown as well:

- **EAIWS (Final):** the full version number read from the registry (Version).
- **EAIWS_PRE:** only the first three version parts are shown, plus an additional note in parentheses.

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Log output (text field)
All log messages are shown in the large text field.

- It is read-only.
- It automatically scrolls to the bottom so new entries remain visible.
- On restart, the latest log data is loaded first; after that, new log lines are appended live.
- It contains messages from Local Test Box itself as well as (debug) information about the OFML data and its configuration.
- Additionally, a log file is created under C:\ProgramData\EasternGraphics\Local Test Box\log. If writing to %ProgramData% is not possible, it is written under %LocalAppData% instead.



Contact Support
Opens a support request and prepares an email to EasternGraphics Support. Diagnostic log files can be exported automatically and provided as a ZIP attachment.



About
Opens the About dialog with version information for Local Test Box and installed components (e.g., EAIWS / pCon.box).

7. Frequent question

How to activate my license key?

1. Please start the *EGR-LicenseClient*
2. There select "*Add license key*" and enter the received license key in next window
3. Click on "*Next*" so that license file is created

Does *Local Test Box* change anything in my data installation?

No. Installation does not make any changes to already installed OFML data or data logon. *Local Test Box* is therefore installed without OFML catalogs. OFML data can then be

registered manually or automatically (see section "*after installation*"). If Local Test Box detects zipped OFML data, then unzipping will be offered. If the data was unzipped, do not send this unzipped data into pCon.update.

Local Test Box is installed. And now?

You will find the shortcut „*Local Test Box*“ in start menu under "*pCon Tools*".

pCon.box or *pCon.basket* does not start, address bar of browser says *https://localhost:8080/index.html*

Reload the website completely by pressing CTRL+F5

Delete the temporary files of EAIWS. Type %userprofile%\EAI-Server in the explorer's address bar and press Enter. Then delete the whole content and restart *Local Test Box*.

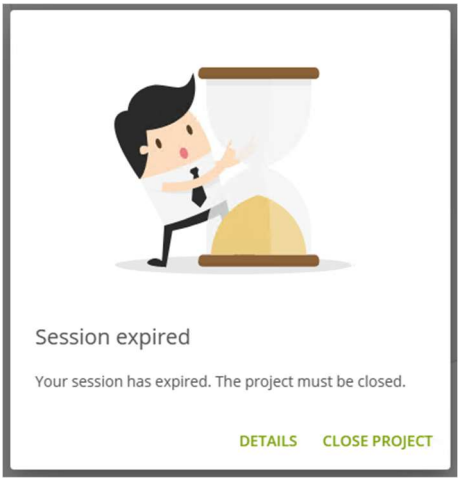
Please check whether a valid license is available.
(see section "License")

If necessary, additionally check whether OFML data are registered in the server component (see section "Data registration").

pCon.box starts, but no OFML data appears in the catalog selection

Often there are errors in data registration, especially in data profiles (*HEx.cfg*) and in *default.profiles* file (see section "*Data registration*").

Error message: “Session expired”

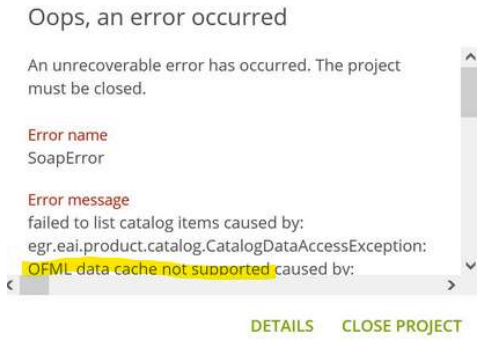


If you run into this issue, then just reload the browser tab for example by pressing “F5”.

Error message: “OFML data cache not supported”



This message indicates, that your free disk space is too less. Remember you need a minimum of 2 GB of free disk space for running Local Test Box. Depending on the amount and size of your registered OFML catalog this required free disk space can be up to 10 GB and more.



Read the following article to learn how you can free up drive space in Windows:

https://support.microsoft.com/en-us/windows/free-up-drive-space-in-windows-85529ccb-c365-490d-b548-831022bc9b32

If you continue to experience this issue despite having sufficient disk space, please refer to the section "Clearing the Local Test Box Cache" later in this document.

Error message appears when inserting the article "Article could not be created"

This problem could be a configuration error in the installation. It is best to look for clues in log.

Item prices are not displayed

If OFML data has prices but they are not displayed in *pCon.box*, this may be due to incorrect or outdated licenses.

Where can I find the current version of the *Local Test Box*?

The current version can always be downloaded with this link:
https://download-center.pcon-solutions.com/?cat=78

Error message appears at startup "A fatal error has occurred..."

1. Please delete the temporary directory of the *Local Test Box* and restart it *c:\Users{user}\EAI-Server*\.

2. Please check the used data profiles for errors like duplicate series entries and correct or remove them.

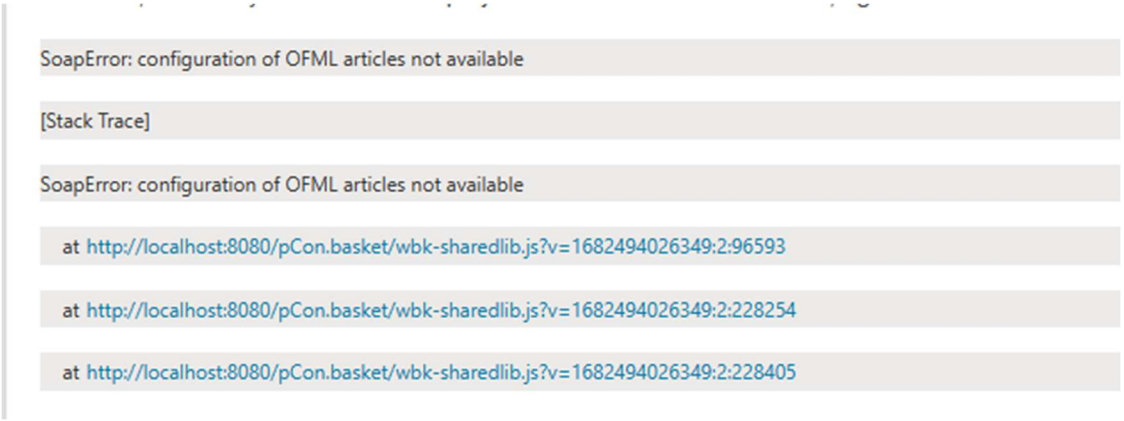
3. Use "*Details*" button in error message to get more information about the issue

Why do I receive the following error when starting the application?

```
FATAL: initialization of EAI-Server failed
FATAL: Cause:
egr.eai.project.store.ProjectStoreInitializationException: failed to
create project database directory
FATAL: Caused by: java.nio.file.AccessDeniedException: C:\Program
Files\EasternGraphics\EAIWS_PRE\var
```

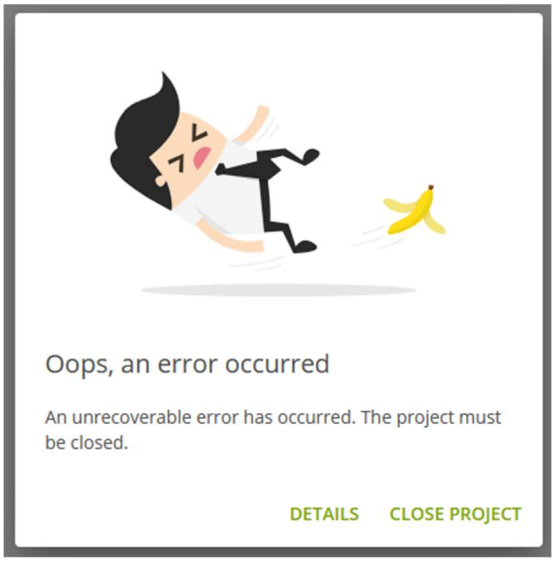
Answer:
Please check your license file. It is possible that an unsupported license is located in the license directory.
For more information, refer to section 5 "License" in the user manual.

Error message in *pCon.basket*: “configuration of *OFML* articles not available”



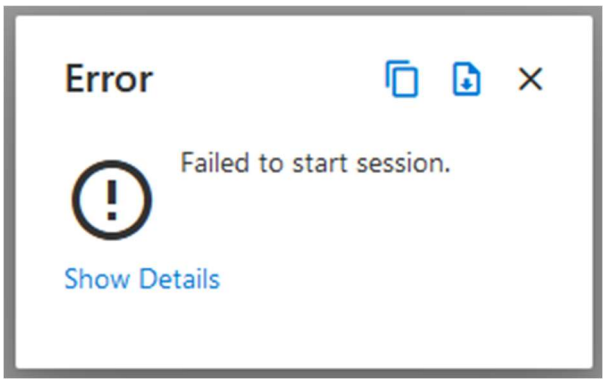
This error occurs when there is an issue with the data profile. Please check your data profile (.cfg) and switch to a functional profile such as "default" or "default.cfg" if necessary.

Error message appears when opening another tab „Oops, an error occured“



1. Use "*Details*" button in error message to get more information about the issue.
2. Please close all browser tabs of the *pCon.Box and pCon.basket* that are no longer needed.
3. Start *pCon.box/basket* again.

When opening a project in *pCon.basket* error message appears „Failed to start session.“



1. Use "*Details*" button in error message to get more information about the issue.
2. Please close all browser tabs of the *pCon.Box / pCon.basket* that are no longer needed.
3. Please start your project in *pCon.basket* again.

Clearing the Local Test Box Cache

In rare cases, it may be necessary to clear the cache of the Local Test Box to resolve performance issues or data inconsistencies. Follow these steps to clear the cache:

Open Windows Explorer.
Navigate to the folder C:\Users\{Username}\EAI-Server\.
Delete all files and subfolders in this directory.
This will reset the cache of the Local Test Box and can assist in resolving issues with the application.

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8. Contact for questions or problems

Our support team is looking forward to your questions, suggestions and criticism:

support@easterngraphics.com

Legal remarks

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