

Operating Guide

System Manager 800A offline utility tool

Overview

The AK-SM 800A Offline utility tool is intended to provide a simulated (offline) environment that replicates a physical (online) AK-SM 800A system. The tool is intended to be installed and operated on a Windows Laptop / PC, using a Web browser as the remote interface. Review the '*Functional Scope*' section for full details of what functionality is provided with the Offline Tool.



Pre-requisites and assumptions

Intended for Windows 11, 64-bit OS

Minimum RAM 16.0 GB

For successful installation and operation of the Offline tool, **be sure to use 7-zip** (other compression utilities may result in non-functional operation).

The use and navigation of the Offline Tool assumes familiarity with AK-SM 800A interface and functionality.

Terms and Conditions of use

Danfoss offers the offline utility as a complementary tool and as such comes with limitations of use – see '*Terms and Conditions*' section for more information.

Installation

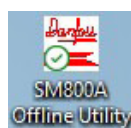
Using 7-Zip, unpack the Offline Utility and step through the installation process (depending on PC security settings it may be required to 'run anyway' if detection of unrecognized app is seen).

Upon completion of installation, you will be asked if you wish to run the simulator (the '*engine*' that powers the Offline Utility tool). Select yes and after ~35-40 sec a browser window will automatically open with the default IP address of localhost:8080. Installation is complete and you are ready to use the Offline Utility Tool. Jump to section '*Logging in*' if you wish to continue.

Using the Offline Utility Tool

Starting the Offline Utility Tool

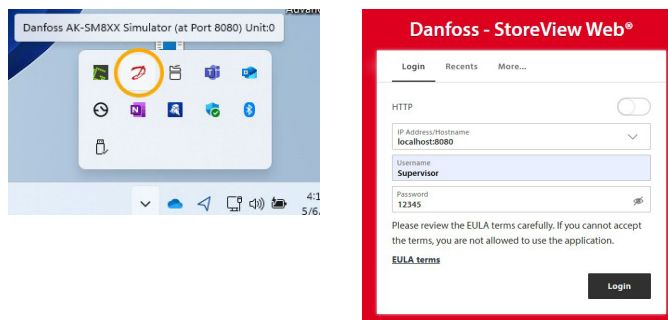
To start the Offline Utility, double click on the tool icon.



Logging in

With the browser launched the default IP of **localhost:8080**, will be presented, you may now log in. The simulator does not require any fixed user/password, so feel free to just type any character for user/password!

Notes: The offline simulator engine runs behind the scenes on your PC, you can see it running and check its IP by expanding the drawer in the bottom-right corner of the taskbar "System Tray" or "Notification Area". When expanded, it shows the Danfoss simulator icon.



Tip! Right clicking on the Utility icon will access the session window – this can be used to see what's happening in the background.

Programming a new 800A DB

Program a new 800A DB as you would via a physical unit, using the layout and copy wizards if needed.

Note: You are not permitted to add new users as this would violate security protocols, users are required to be added on a live unit by the Admin / Authorized user.

Loading an 800 DB

Loading an 800 DB will also be converted to 800A format (.dbk).

- System → Database → Import

Refer to appendix for addition information.

Note: V08:080 and above supported only

Loading an 800A DB

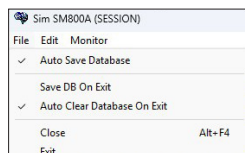
- System → Database → Import

Delete a DB and start from fresh

- Configuration → System → 'Clear Database' OK
- Sim will automatically exit
- Close browser tab
- Launch new Simulator (blank Database)

Database - options

The off-line tool offers three options for managing your database, these options can be found by right clicking the Danfoss icon in the system tray and select 'session window toggle'. From the File menu, three options are available, 'Auto Save Database', 'Save DB on Exit' and 'Auto Clear Database on Exit'.



Exiting the Offline Utility Tool

Right click the Simulator(s) in your 'System Tray' and select 'Exit'.

Functional Scope

Configuration	
Import 800A Database	yes
Auto convert AK-CC55 (from 800 to 800A format – keeping settings)	yes
Import 800 Database (will auto convert to 800A format)	yes
Saved DB formats	.s55 / .dpk
Configuration screens	yes
Layout Wizard	yes
Copy Wizard	yes
Write to devices (database)	yes
History configuration	yes
Schedule configuration	yes
Users	no
Security menu	yes
System Report	yes
Comm configuration	yes
Alarm configuration (connections/routing/relays/system/offline)	yes
Network nodes	yes
Update EDF files	yes
Utilities Menu items (diag log, s/w update, export db, import db..)	partial
Graphic Editor	no
Main Menus	
Dashboard	yes
Alarms	yes
System View	yes
Device detail	yes
Schedules	yes
Info	yes
History	yes
Configure multi units	no
Manually start another sim (8081, 8082..)	

Note: Currently the Graphic Editor function is not supported. If this button is clicked an error will show. When navigating to other menus be sure to press the refresh button – clearing the screen error.

Terms and Conditions

1. Acceptance of Terms

By using the Offline Utility tool ("Tool"), you agree to comply with and be bound by the following terms and conditions. If you do not agree to these terms, you must not use the Tool.

2. Use of the Tool

The Tool is provided to you free of charge for personal and non-commercial use. You may not modify, distribute, or sell the Tool without prior written consent from Danfoss.

3. "As-Is" Disclaimer

The Tool is provided "as-is" without any warranties of any kind, either express or implied. Danfoss does not guarantee the accuracy, reliability, or completeness of the Tool and disclaims all liability for any errors or omissions.

4. Limitation of Liability

In no event shall Danfoss be liable for any direct, indirect, incidental, special, or consequential damages arising out of or in connection with the use or inability to use the Tool, even if Danfoss has been advised of the possibility of such damages.

5. User Responsibility

You are solely responsible for any consequences arising from your use of the Tool. You agree to use the Tool at your own risk and discretion.

6. Changes to Terms

Danfoss reserves the right to modify these terms at any time. Any changes will be posted on this page, and your continued use of the Tool constitutes acceptance of the revised terms.

7. Governing Law

These terms shall be governed by and construed in accordance with the laws of the jurisdiction in which Danfoss operates.

Appendix

The following controls will be auto converted to AK- SM 800A - transition and conversion from ed3 to ed4 formats:

```
{"B405716x.ed3", "B405716x.ed4"},  
{"B405811x.ed3", "B405811x.ed4"},  
{"B405812x.ed3", "B405812x.ed4"},  
{"B408119x.ed3", "B408119x.ed4"},  
{"B408120x.ed3", "B408120x.ed4"},  
{"B408121x.ed3", "B408121x.ed4"},  
{"B408213x.ed3", "B408213x.ed4"},  
{"B408215x.ed3", "B408215x.ed4"},  
{"B408217x.ed3", "B408217x.ed4"},  
{"B408313x.ed3", "B408313x.ed4"},  
{"B408315x.ed3", "B408315x.ed4"},  
{"B408317x.ed3", "B408317x.ed4"},  
{"B408417x.ed3", "B408417x.ed4"},  
{"B408418x.ed3", "B408418x.ed4"},  
{"B408419x.ed3", "B408419x.ed4"},  
{"MC250163.ed3", "MC250163.ed4"},  
{"MC251163.ed3", "MC251163.ed4"}
```

Conversion of AK-SM800 databases requires a minimum version 08.080. If your unit is running older firmware, update physical unit, then save database.

Currently, the Graphic Editor function is not supported. If this button is clicked an error will show. When navigating to other menus be sure to press the refresh button – clearing the screen error.

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