

OPC Import UNICORN extension

CHROMATOGRAPHY CONTROL SYSTEMS

UNICORN™ system control software provides built-in knowledge for planning, controlling, and analyzing chromatography systems and results. UNICORN is used on ÄKTA™ systems and can be used throughout all stages of process development from the lab bench to full-scale production. The OPC Import UNICORN extension is used for importing data from an OPC Historical Data Access (OPC HDA) server to UNICORN (version 6.4 or higher) for evaluation. The imported data is processed by an OPC import algorithm to allow result evaluation in UNICORN.

- Import historical data into UNICORN so that calculations to evaluate the performance of a column can be made
- Enables HETP and asymmetry calculations on data from other databases
- Enables a trend analysis of individual columns in order to maintain quality and conditions across purification batches

Compatibility

The OPC Import extension is an OPC HDA client and may read data from an OPC HDA server (in the production environment) that supports OPC HDA v1.2.

The OPC Import UNICORN extension processes data from the OPC HDA server so that it complies with the UNICORN requirements. This allows the data on the OPC server to be either regularly or irregularly sampled.

Creating a configuration file

The user may define a configuration file that contains information about which OPC HDA server to connect to and which tags that are of interest to read historical data for. The created configuration may thereafter be used to easily and repeatedly import data. The configuration file is sent to Cytiva to create a signed file that can be used in production.

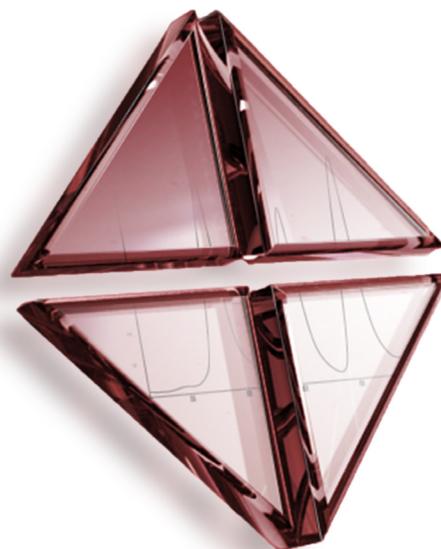


Fig 1. The OPC Import UNICORN extension provides a standardized interface to support import of data from SCADA or DCS systems to UNICORN in order to perform analysis of data originating in other systems.

Importing data

When the OPC Import extension is downloaded and installed and the configuration file is created, the user can import data into UNICORN 6.4 (Fig 2). The dialog is accessed by choosing the **OPC Import: Select a result to import** menu from the **Extensions** menu in the **Evaluation** module of UNICORN 6.4.

Performing calculations

In order to perform calculations, UNICORN requires the inclusion of an injection tag in the imported result to define the point in time the injection onto the column was made. The data that is imported is converted to a standard UNICORN result which allows the user to use the UNICORN Evaluation module to evaluate and automatically calculate important parameters such as HETP and asymmetry.

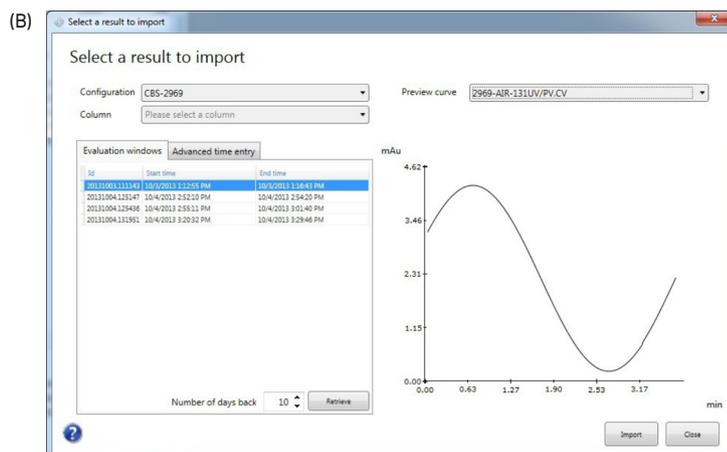
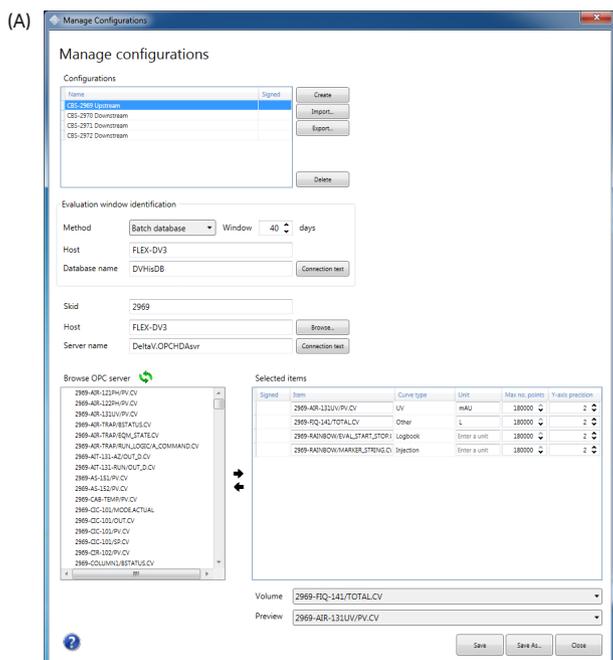


Fig 2. Importing data from a historical database into UNICORN from an OPC HDA server. (A) The Manage configurations dialog is used to create configurations that will be used when importing data. The user can either manually enter the Host and Server names or browse the network to find the desired database. When an OPC server has been identified, items will appear in the Browse OPC server list. The user selects which items to include in the configuration. (B) Data is imported into UNICORN by selecting an appropriate configuration and column from the available options. Data will be imported within the time interval selected by the user. A preview curve for the selected item is illustrated in the window. The data is imported by pressing the import button, and the data can then be analyzed using any of the UNICORN evaluation functions (e.g., peak integration, and HETP and asymmetry calculations).

Ordering information

The OPC import extension can only be used in conjunction with a UNICORN system (version 6.4 or higher). The OPC import extension file can be downloaded at:

cytiva.com/unicornextensions

Product	Code number
OPC Import UNICORN extension	29-0905-43
UNICORN 6.4 Manual package	29-0670-74
UNICORN 6.4 workstation License pack for ÄKTA pure, pilot, process	29-0561-02
UNICORN 6.4 Remote License without DVD	29-0670-44
UNICORN 6.4 Dry License without DVD	29-0670-45
UNICORN 6.4 Column logbook, network license	29-0670-47
UNICORN 6.4 DVD package	29-0561-00

Related literature

UNICORN 6.4 control software, Data file	28-9573-46
Validation support File UNICORN software, Data file	28-9626-50

cytiva.com/unicornextensions

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