
SOFTMAX[®] PRO DATA ACQUISITION MODULE

Version 1.5.0 SR1

User Guide

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WELCOME

Welcome to the SoftMax® Pro Data Acquisition Module User Guide. This guide is intended for users, functional administrators of PLA and system administrators.

It describes all aspects of the installation, configuration, and usage of the SoftMax® Pro Data Acquisition Module.

The SoftMax® Pro Data Acquisition Module can import data from XML files which were created with SoftMax Pro Version 6.x – 7x. The SoftMax® Pro Data Acquisition Module can also import data from files which were created with SoftMax Pro 3.x – 5.x.

HOW TO USE THIS GUIDE

The structure of this guide is as follows:

System Requirements and Configuration(System Administrators and PLA Administrators)

- Requirements of the Data Acquisition Module
- Configure the SoftMax® Pro XML and 3.x – 5.x Data Acquisition Module
 - Manage Configurations

Step by Step Guide: Acquire Data with the Data Acquisition Module (PLA Users)

- SoftMax® Pro XML Data Acquisition
 - Acquire data
- SoftMax® Pro 3.x – 5.x Data Acquisition
 - Acquire data

Installation (System Administrators)

- Installation of the Data Acquisition Module

OVERVIEW

The SoftMax® Pro Data Acquisition Module gives you the opportunity to acquire data from SoftMax Pro files using PLA 3.0.4.

Four import formats are available for the Data Acquisition Module:

SoftMax Pro 3.x – 5.x, Wavelength #1 (*.pda, *.eda) – Allows importing data from a SoftMax Pro file which was generated by SoftMax Pro version 3.x – 5.x. The response values of the first wavelength will be imported.

SoftMax Pro 3.x – 5.x, Wavelength #1-#2 (*.pda, *.eda) – Allows importing data from a SoftMax Pro file which was generated by SoftMax Pro version 3.x – 5.x. The response values of the second wavelength will be subtracted from the response values of the first wavelength during the import process.

SoftMax Pro 3.x – 5.x, Wavelength #2 (*.pda, *.eda) – Allows importing data from a SoftMax Pro file which was generated by SoftMax Pro version 3.x – 5.x. The response values of the second wavelength will be imported.

SoftMax Pro 6.x - 7.x (*.xml) – Allows importing data from a SoftMax Pro file which was generated by SoftMax Pro 6.x – 7.x.

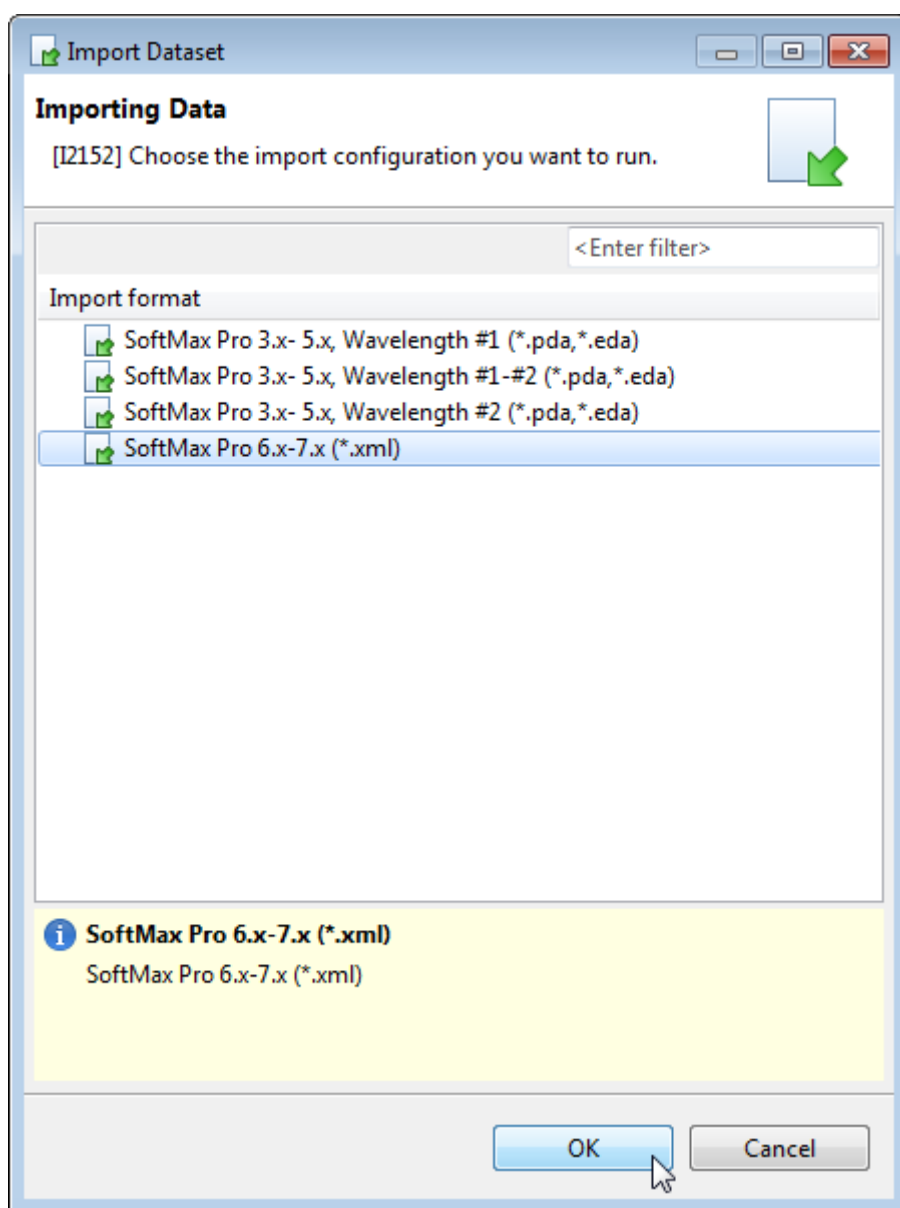
SYSTEM REQUIREMENTS

The SoftMax® Pro Data Acquisition Module v1.5.0 requires PLA 3.0.4. An Installation of SoftMax Pro Data Acquisition and Analysis Software is not required.

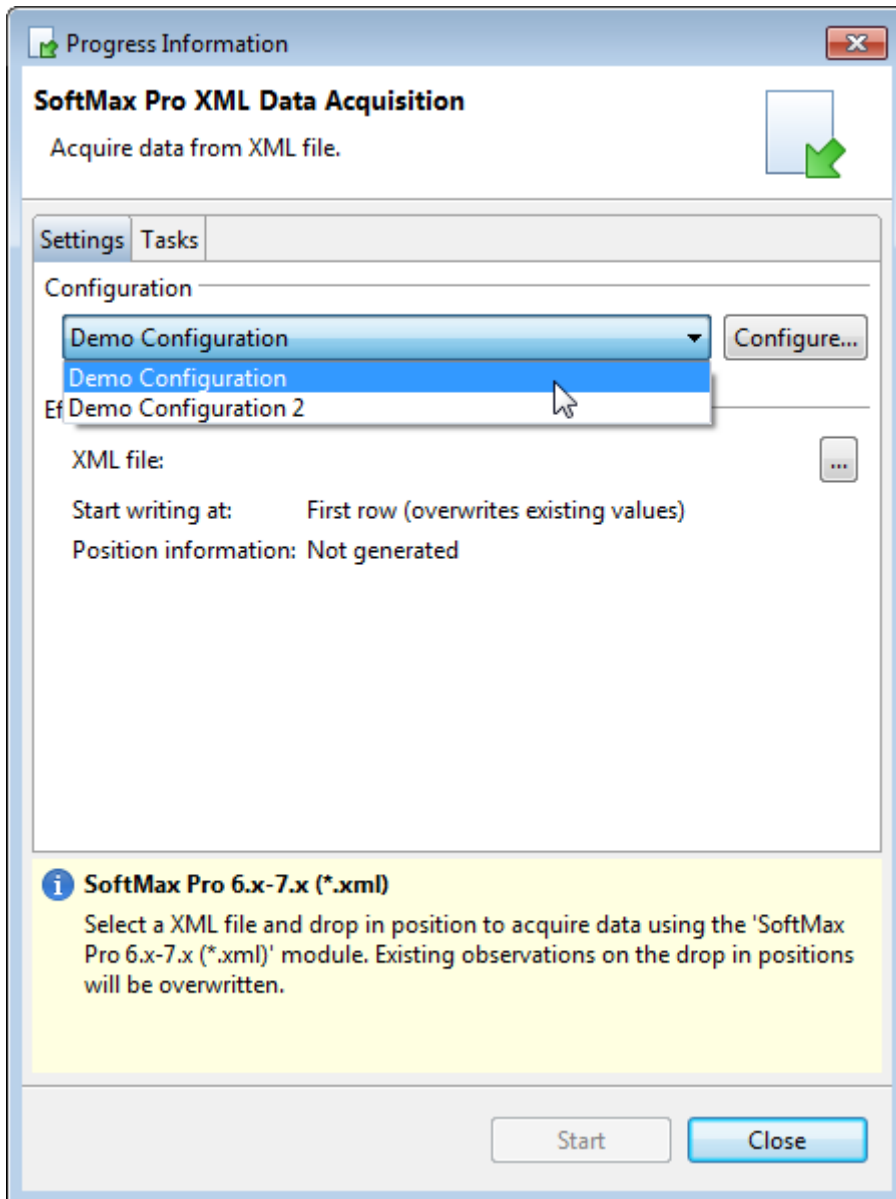
SOFTMAX® PRO 6.X – 7.X XML DATA ACQUISITION MODULE

The SoftMax® Data Acquisition Module allows you to import data from existing SoftMax Pro files into PLA Quantitative Response Assay documents. To start the Data Acquisition Module, run the **Acquire Data** action of a PLA Quantitative Response Assay document.

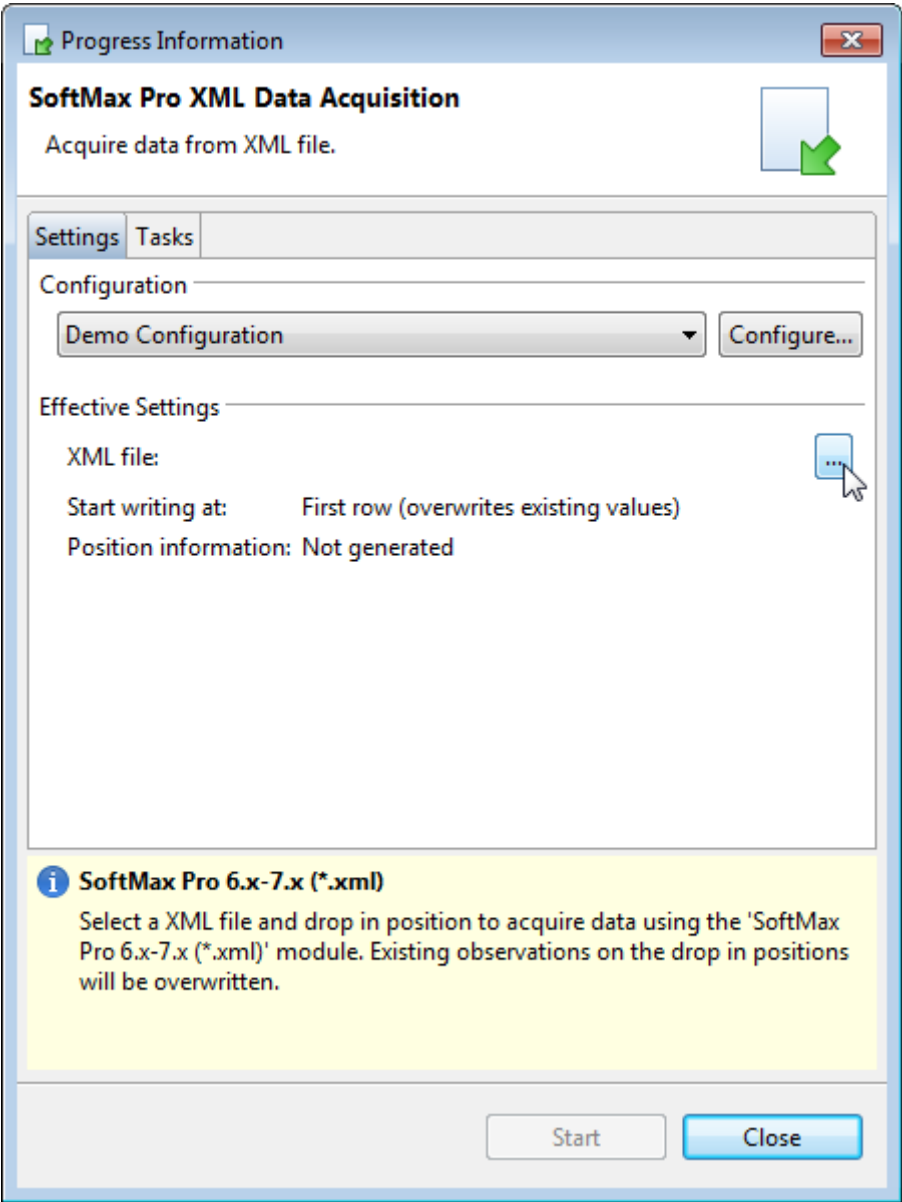
Select the SoftMax Pro 6.x - 7.x import format and click **OK**.



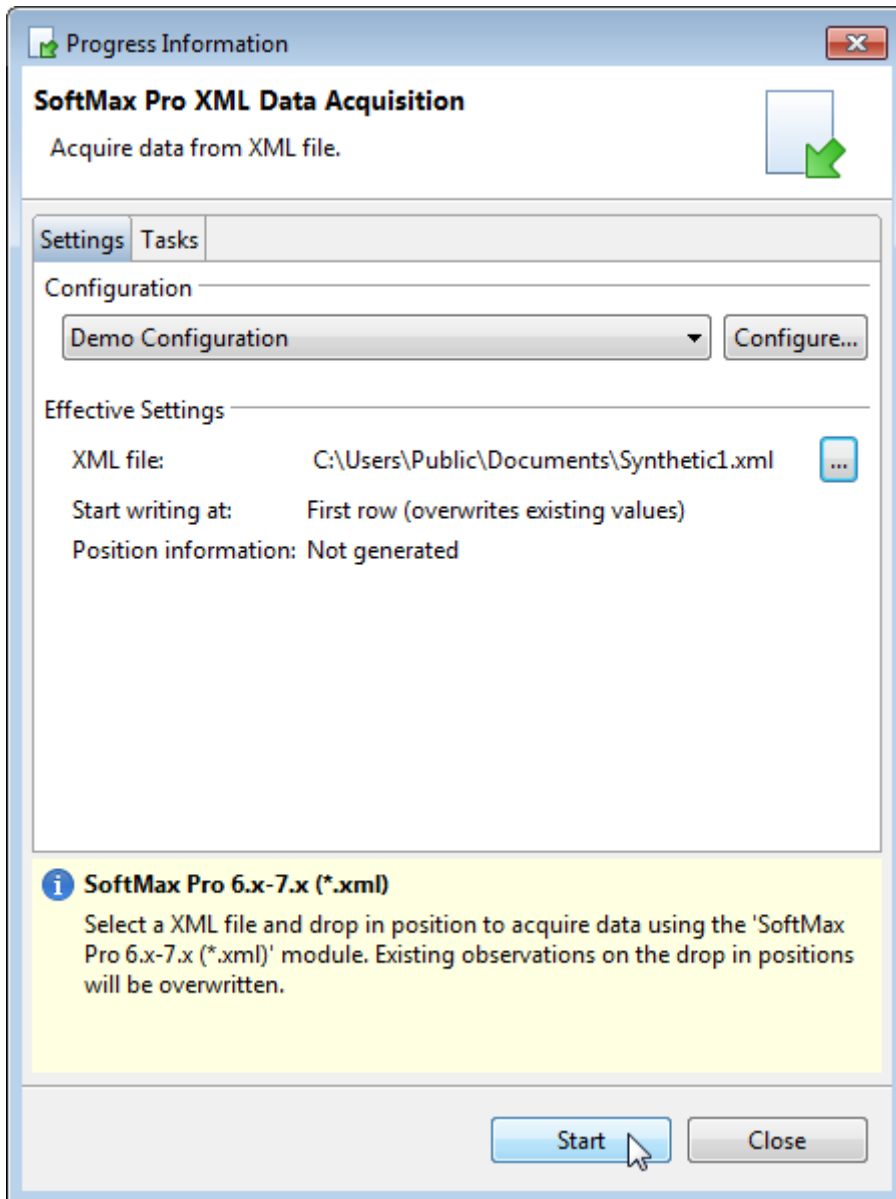
You can select a configuration profile using the drop-down menu of the Data Acquisition dialog. If there is no configuration profile listed, it is necessary to create one (see chapter Manage Configurations).



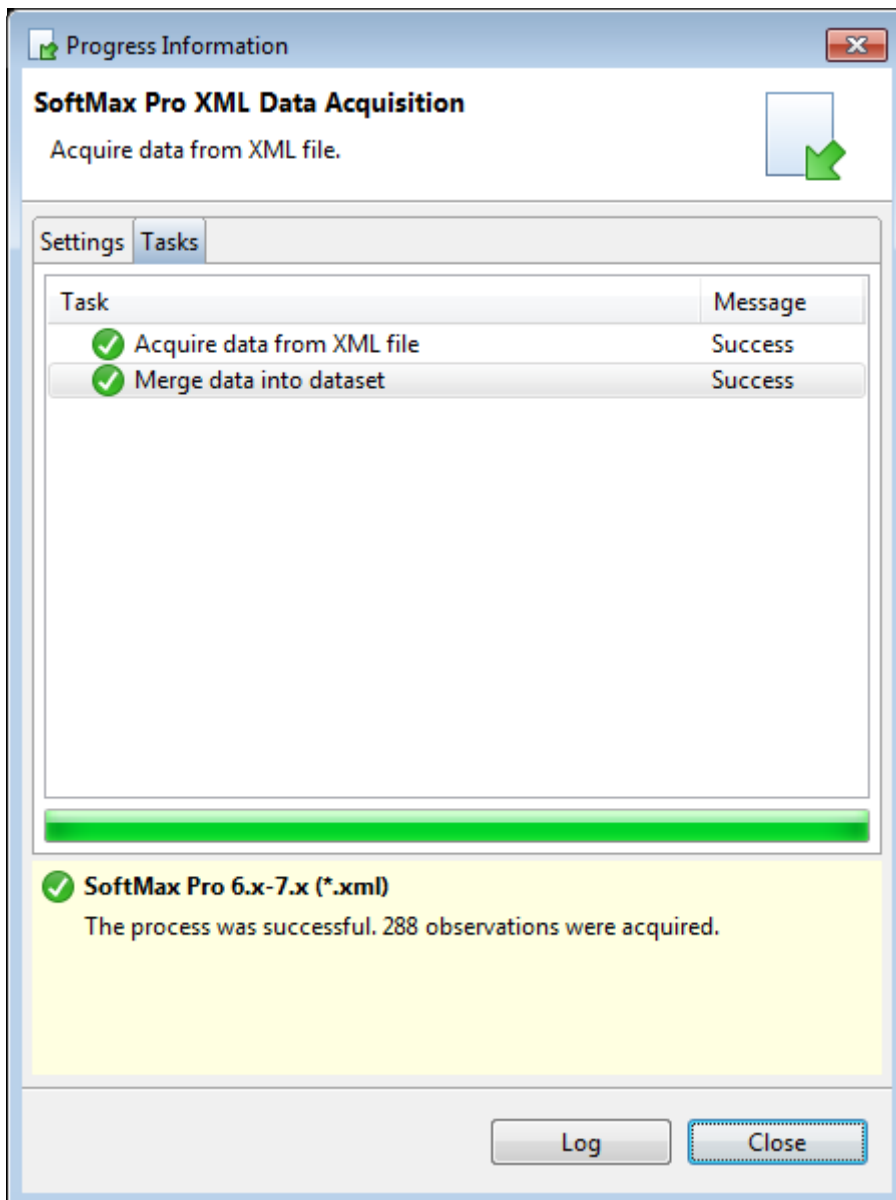
After choosing a configuration profile, select a SoftMax Pro XML file using the ... button.



When you have chosen a configuration and a SoftMax Pro XML file, you can start the import process using the **Start** button. The effective settings are set by the configuration profile and define if old values are kept or overwritten.



You can view the progress and the result of the data acquisition using the status dialog.



The result of the data acquisition is available in the response column in the observations view of the PLA document editor.

The screenshot displays the 'New Quantitative Response Assay' window in PLA 3.0. The window title is 'PLA 3.0 - Software for Biostatistical Analysis'. The main area shows a table with the following data:

Observation Group ID	Sequence Step	Response	Technical Outlier
1		1.01	false
2		1.02	false
3		1.03	false
4		1.04	false
5		1.05	false
6		1.06	false
7		1.07	false
8		1.08	false

Below the table, a message states: 'You are currently editing the settings of a single observation.' This is followed by a table showing the current observation's settings:

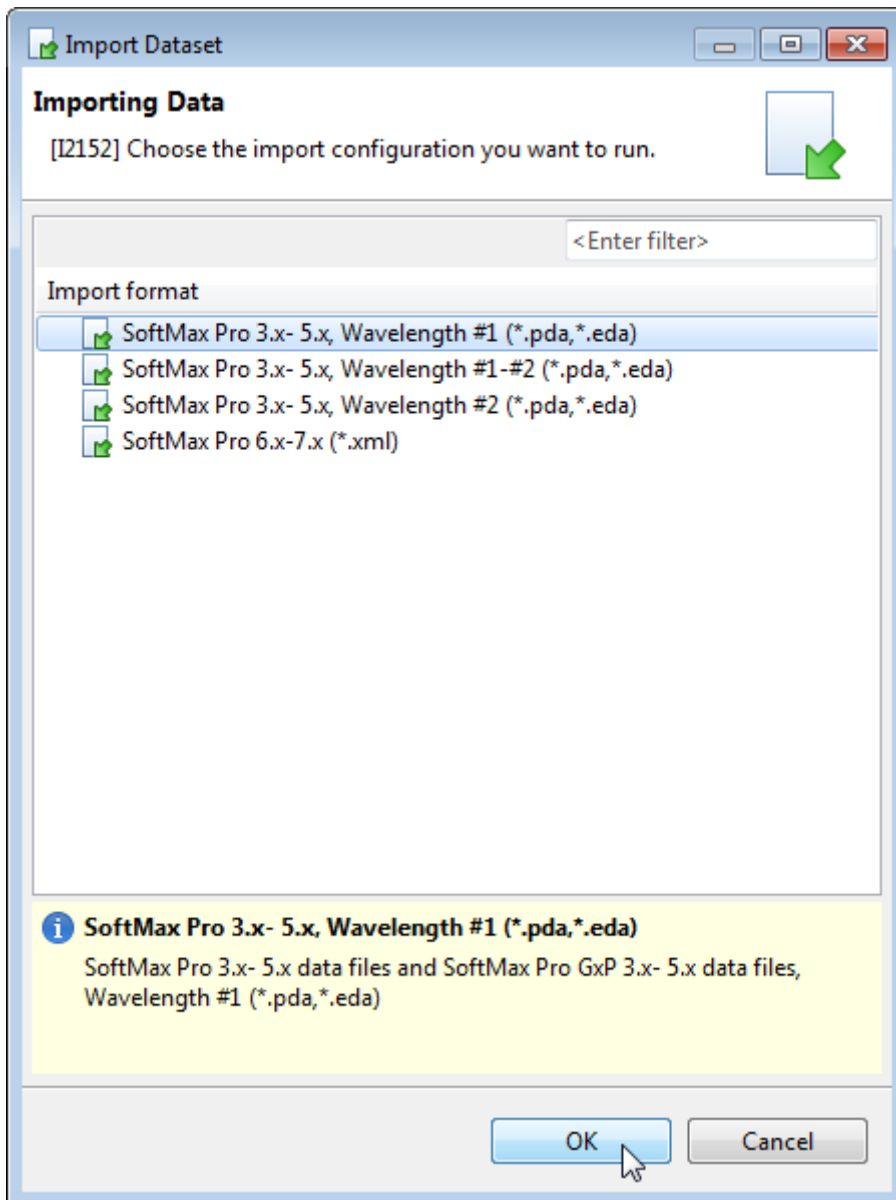
Factor	Value
Observa...oup ID	
Sequence Step	
Response	1.01
Technical Outlier	false

The left sidebar contains navigation options: Dashboard, Content, Observations (selected), By Sequence, Audit Trail, Acquire Data..., Calculate, Report..., Signatures..., and Help. The bottom left corner shows a 'Demo3' icon.

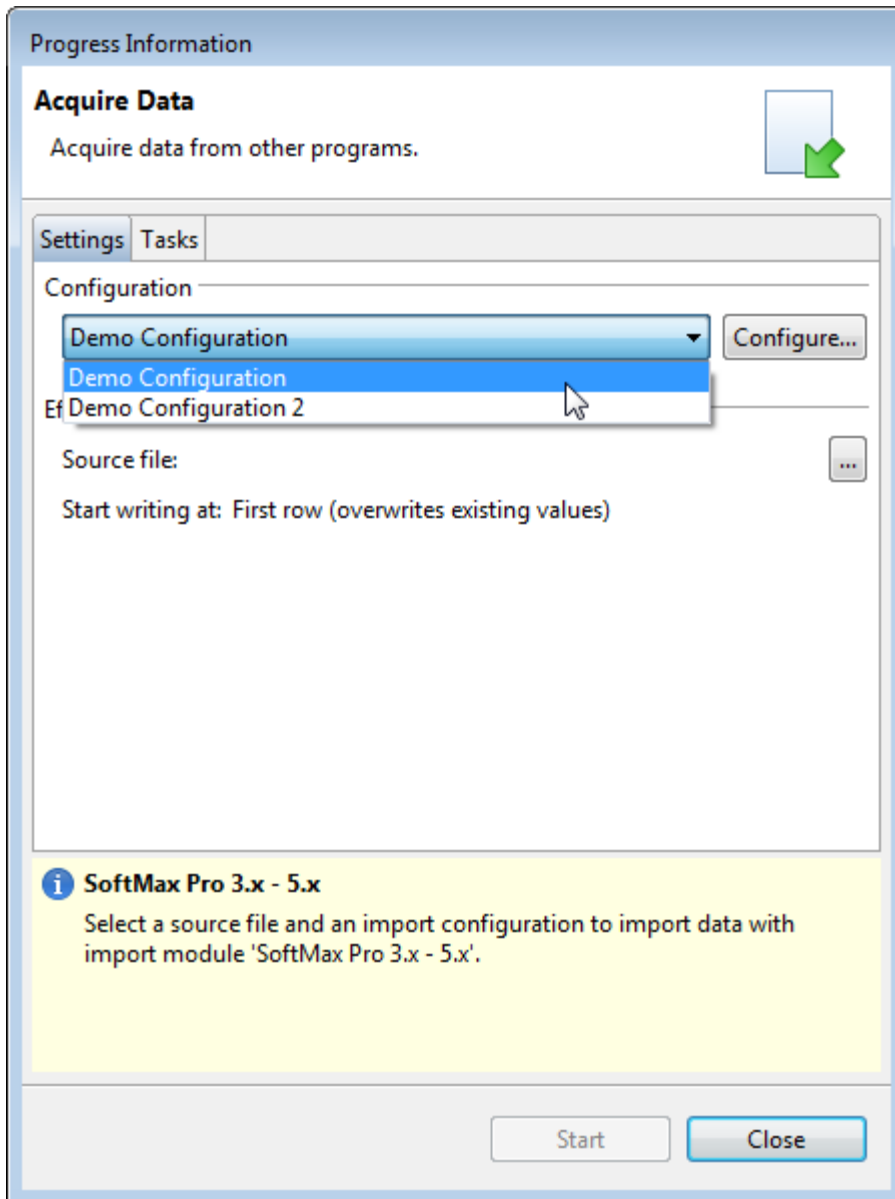
SOFTMAX® PRO 3.X – 5.X DATA ACQUISITION MODULE

The SoftMax® Pro Data Acquisition Module allows you to import data from existing SoftMax Pro 3.x – 5.x files into PLA Quantitative Response Assay documents. To start the Data Acquisition Module, run the **Acquire Data** action of a PLA Quantitative Response Assay document.

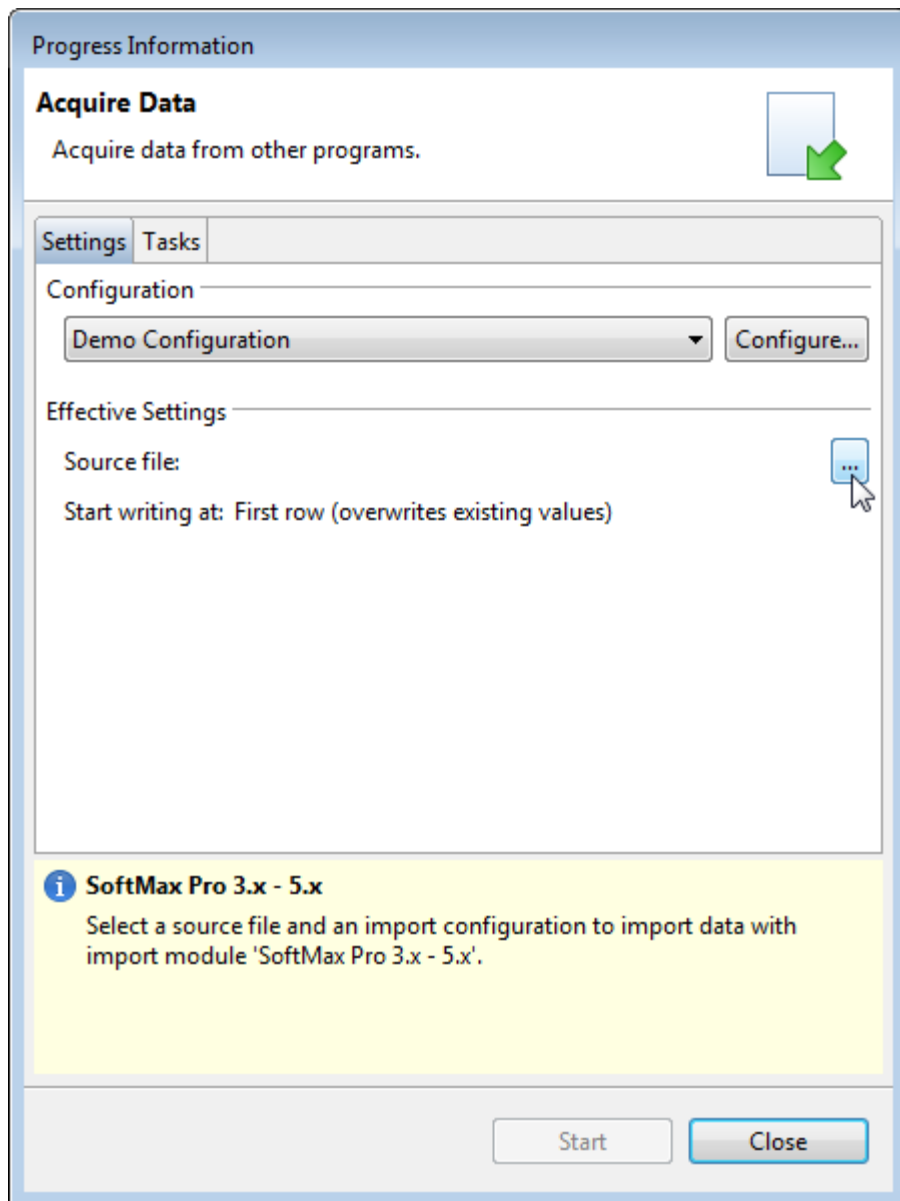
Select one of the SoftMax Pro 3.x – 5.x import formats and click the **OK** button.



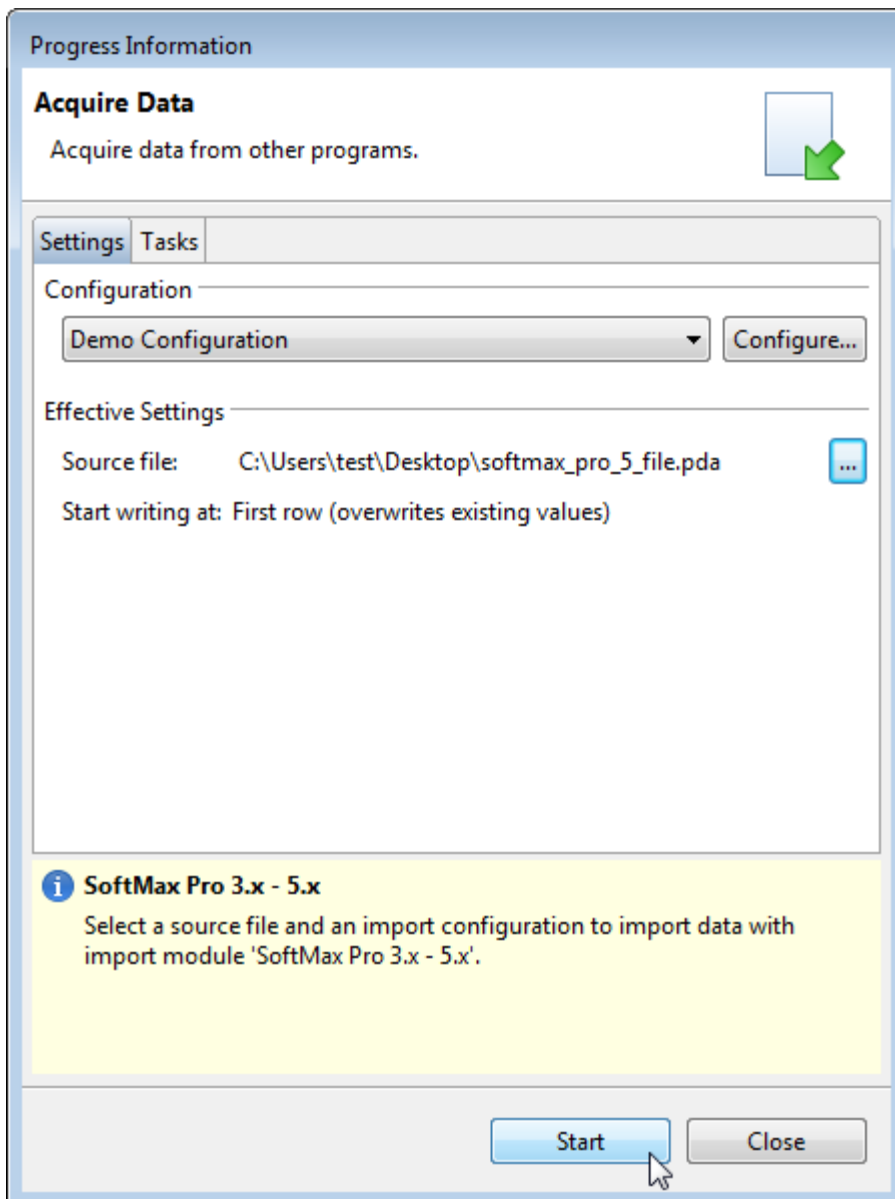
You can select a configuration profile using the drop-down menu of the Data Acquisition dialog. If there is no configuration profile listed, it is necessary to create one (see chapter Manage Configurations).



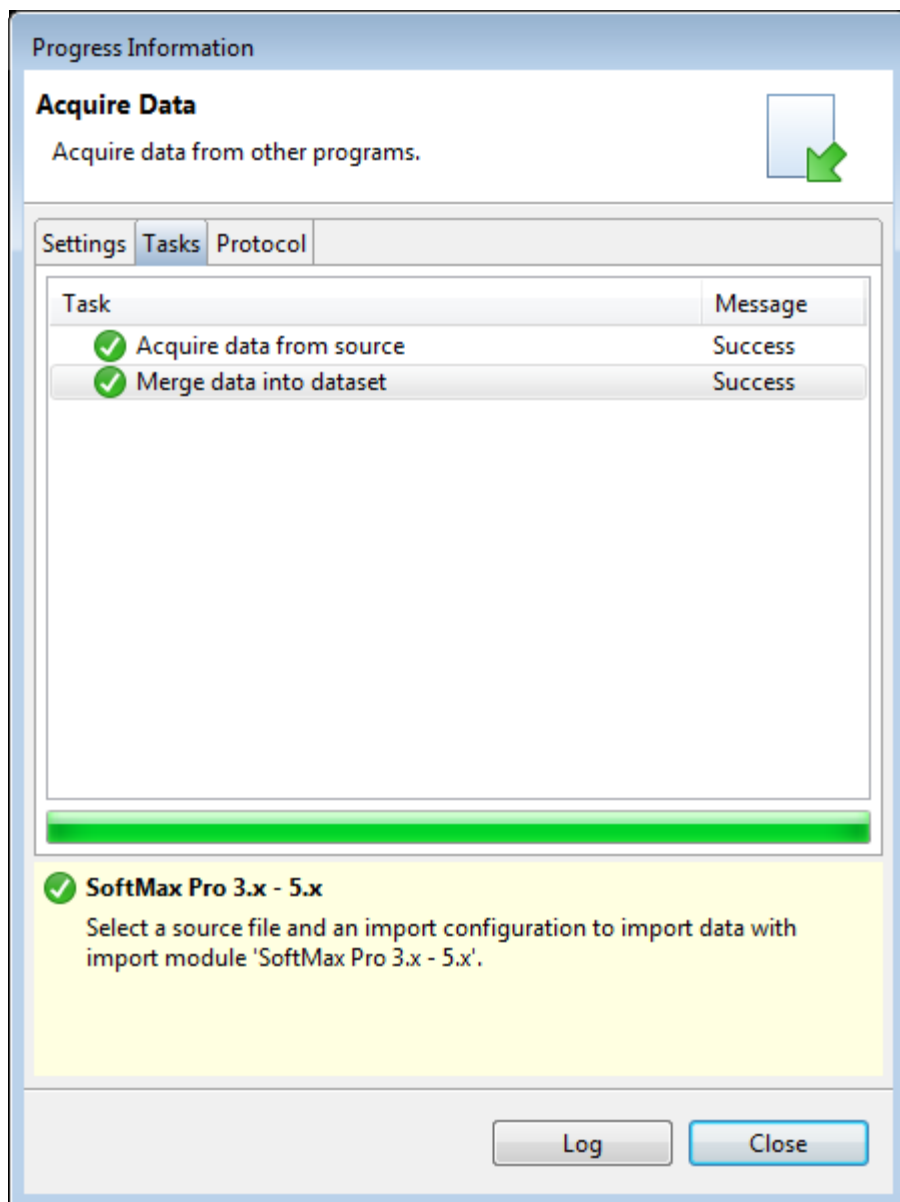
After choosing a configuration profile, select a SoftMax Pro 3.x – 5.x .pda file using the ... button.



When you have chosen a configuration and a SoftMax Pro 3.x – 5.x .pda file, you can start the import process using the **Start** button. The effective settings are set by the configuration profile and define if old values are kept or overwritten.



You can view the progress and the result of the data acquisition using the status dialog.



The result of the data acquisition is available in the response column in the observations view of the PLA document editor.

The screenshot displays the 'New Quantitative Response Assay' window in the PLA 3.0 software. The window title is 'PLA 3.0 - Software for Biostatistical Analysis'. The main area shows a table with the following data:

Observation Group ID	Sequence Step	Response	Technical Outlier
1		1.01	false
2		1.02	false
3		1.03	false
4		1.04	false
5		1.05	false
6		1.06	false
7		1.07	false
8		1.08	false

Below the table, a message states: 'You are currently editing the settings of a single observation.' This is followed by a table showing the current observation's settings:

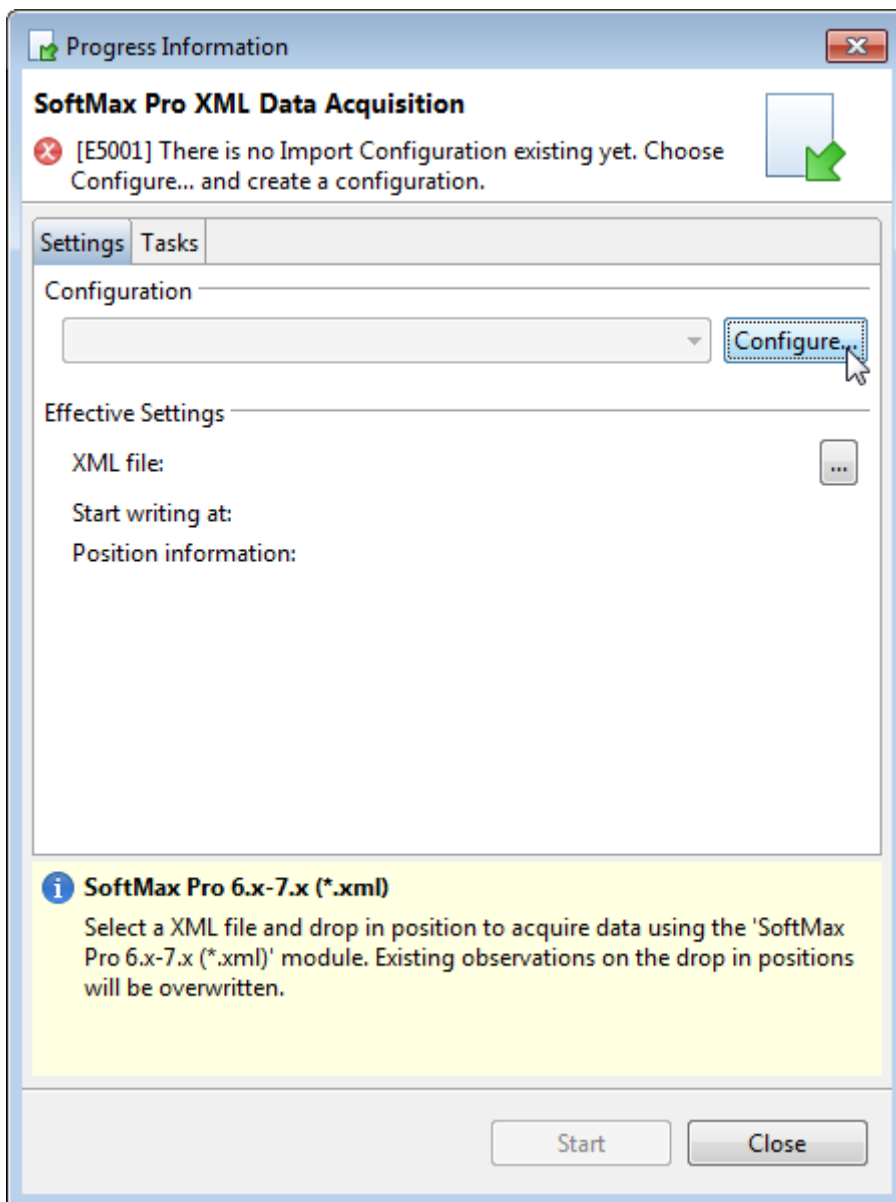
Factor	Value
Observa...oup ID	
Sequence Step	
Response	1.01
Technical Outlier	false

The left sidebar contains various navigation options: Dashboard, Content, Observations (selected), By Sequence, Audit Trail, Acquire Data..., Calculate, Report..., Signatures..., and Help. The bottom left corner shows a 'Demo3' icon.

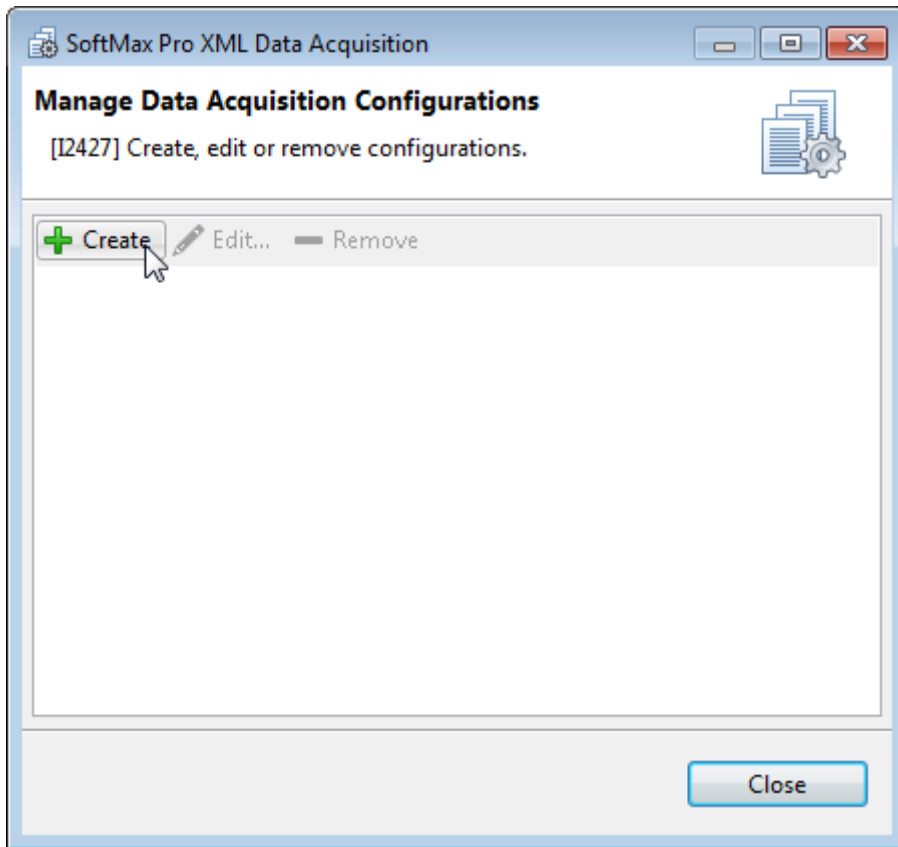
MANAGE CONFIGURATIONS

Within PLA, the SoftMax® Pro XML and SoftMax® Pro 3.x – 5.x Data Acquisition Module offers the possibility of creating, editing, or deleting data acquisition configurations.

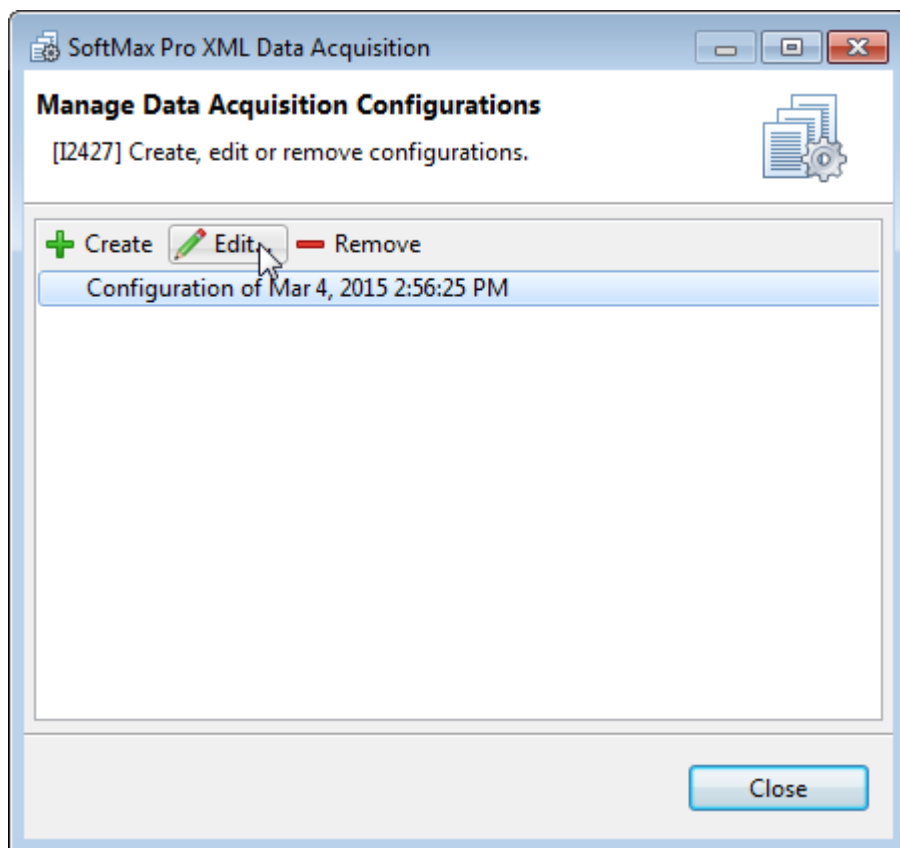
You can open the profile configuration dialog using the **Configure...** button in the Acquire Data dialog.



To configure the SoftMax® Pro XML and SoftMax® Pro 3.x – 5.x Data Acquisition Module, you need to create a configuration profile in the Manage Data Acquisition Configurations dialog.

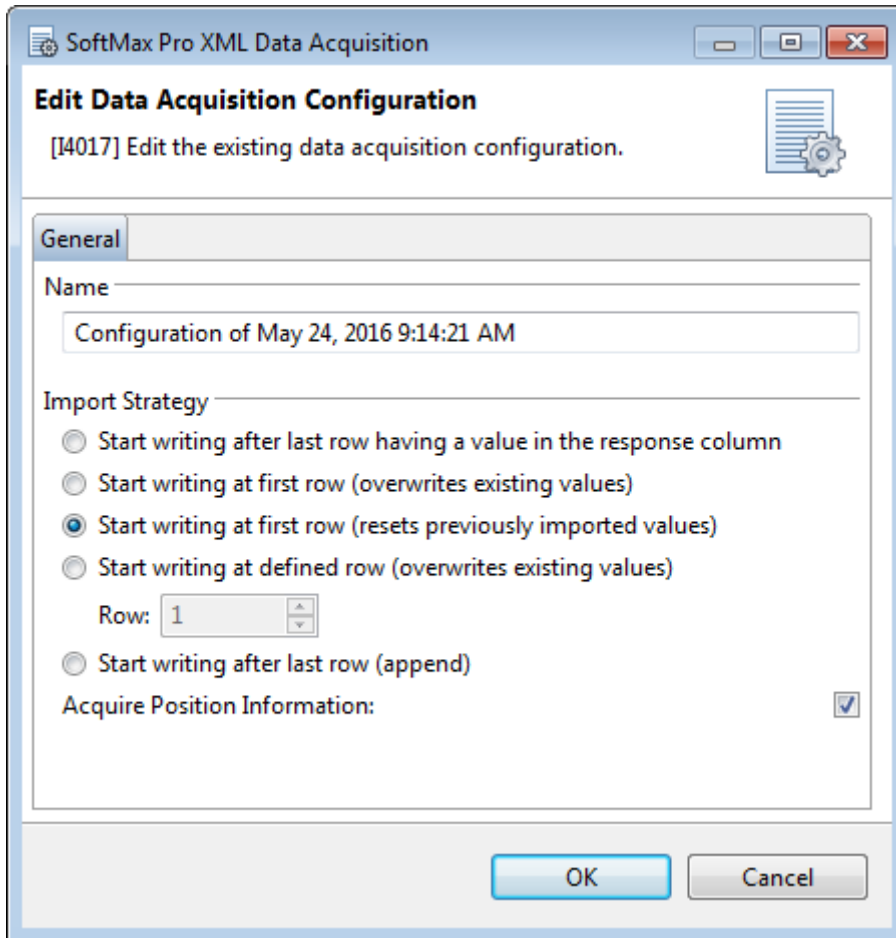


The Manage Data Acquisition Configurations of the SoftMax® Pro XML and SoftMax® Pro 3.x – 5.x Data Acquisition Module dialog also allows editing or deleting existing configuration profiles.



STANDARD CONFIGURATION OPTIONS

GENERAL



NAME

Allows you to enter the name of the configuration profile.

IMPORT STRATEGY

Describes how the data is written into the observations view of the Quantitative Response Assay.

Label	Description
Start writing at first empty row	Starts writing at the first empty observation row, keeping existing values
Start writing at first row (overwrites existing values)	Starts writing at the first observation row, overwriting existing values
Start writing at first row (resets previously imported values)	Starts writing at the first observation row, resets all values to default values before inserting data.
Start writing at defined row (overwrites existing values)	Starts writing in specified observation row, overwriting existing values
Start writing after last row (append)	Starts writing after the last observation row, keeping existing values
Only available for SoftMax Pro 6.x – 7.x import format	
Generate Position Information	Acquires row, column, and plate position factor values if available

ADVANCED CONFIGURATION OPTIONS

The advanced configuration of the SoftMax Pro XML and 3.x – 5.x Data Acquisition Module is handled via the `SoftMax Pro (3.x – 5.x) Data Acquisition Package.properties` and `SoftMax Pro XML (6.x- 7.x) Data Acquisition Package.properties` configuration that is stored in the `C:\ProgramData\Stegmann Systems\PLA [version]` directory. Any settings that are made using the SoftMax® Pro XML Data Acquisition Module configuration profiles are also saved to these properties files.

Important: The encoding of the .properties files is ISO-8859-1 (Latin-1). All non-Latin-1 characters must be entered by using \ as escape character. Example: The special character : must be entered as \: and the special character \ must be entered as \\

To configure the SoftMax® Pro XML and 3.x – 5.x Data Acquisition Module, you need write permissions on the two properties files. Regular Microsoft Windows user accounts do not have write permissions within the Program Data directory, so you might need an administrative account to change the configuration.

DEFINE AVAILABLE CONFIGURATION PROFILES

You can define the available configuration profiles per folder on a database. To define the available configuration profiles, add the following property to the corresponding properties file:

```
com.stegmannsystems.edp.dataacquisition.softmaxPro.restrictions.<DB-UUID>.profile.<Folder-Key>
```

You can view the DB-UUID of the database using the PLA Database Policies (General tab). The folder key can be viewed using the PLA folder properties dialog (Document Key value).

The following example will limit the available configuration profiles for the folder with the folder-key "Folder-1" (Root Folder) and all of its subfolders, unless a subfolder defines its own set of available configuration profiles. Multiple configuration profiles need to be separated by a pipe symbol (|). Only the configuration profiles named "SoftMax Pro Profile1" and "SoftMax Pro Profile2" can be used in the Text Data Acquisition Module:

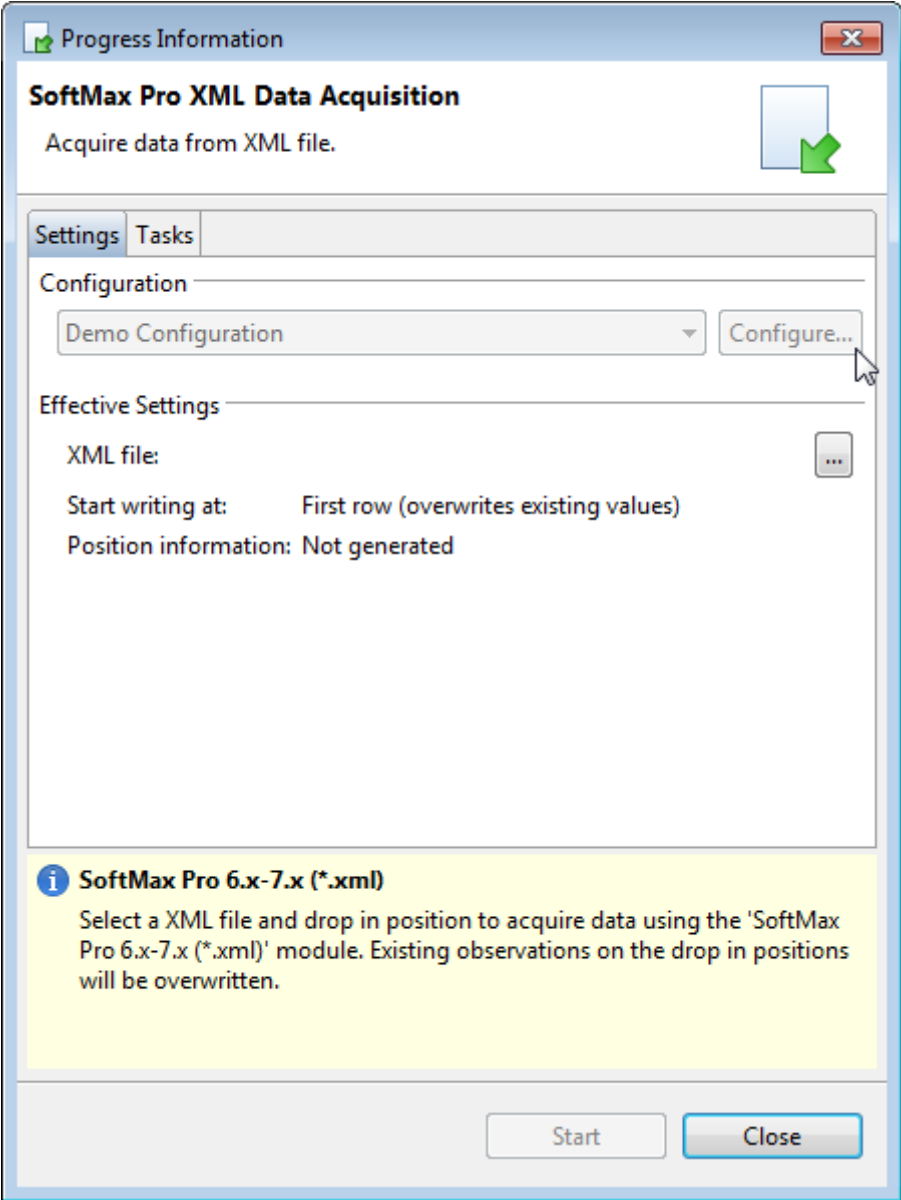
```
com.stegmannsystems.edp.dataacquisition.softmaxPro.restrictions.6c868b23-d386-45f8-833b-15e8014b424f.profile.Folder-1=SoftMax Pro Profile1|SoftMax Pro Profile2
```

This setting does not prevent users from changing the available profiles. See chapter Prevent Configuration of Configuration Profiles for further information.

PREVENT CONFIGURATION OF CONFIGURATION PROFILES

By default, all users that can access the SoftMax[®] Pro XML and 3.x – 5.x Data Acquisition Module can create, edit and delete configuration profiles. To prevent users from creating, editing, and deleting configuration profiles, you have to add the following property to your `pla.properties` file:

```
com.stegmannsystems.edp.dataacquisition.softmaxPro.restrictions.canEditProfiles=false
```

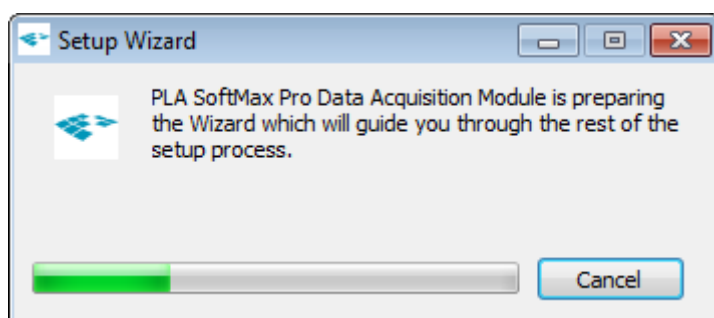


INSTALLATION

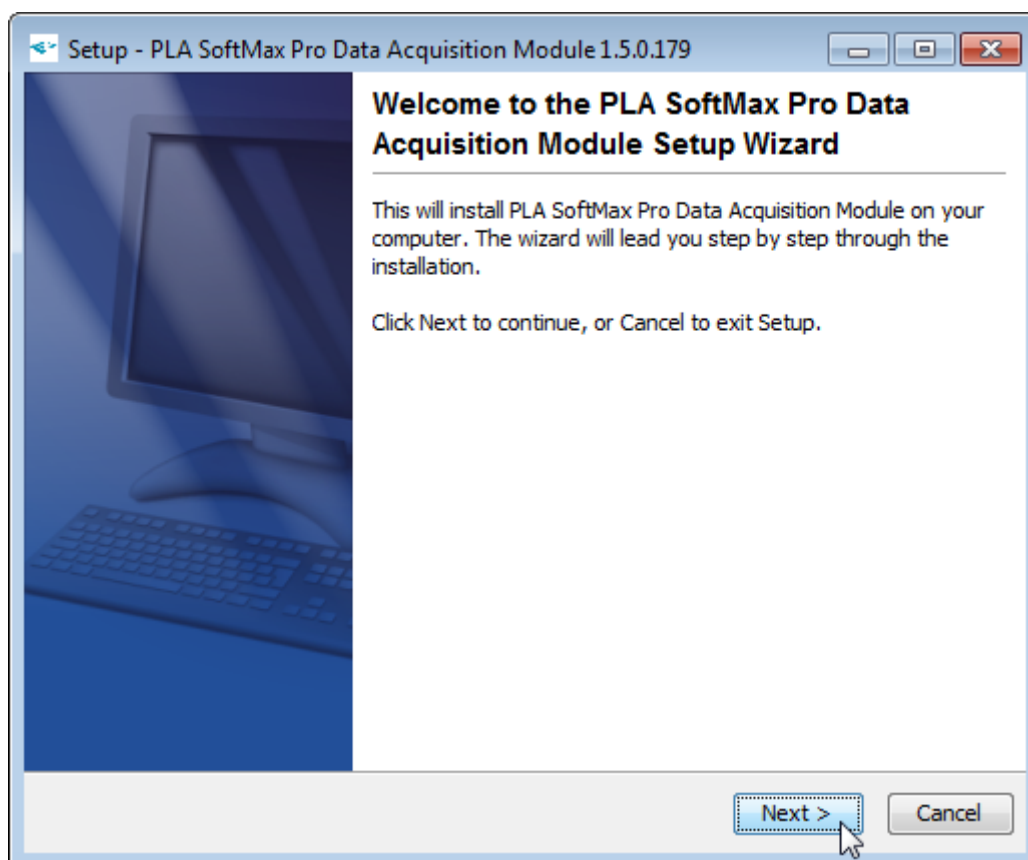
Installing the SoftMax® Pro Data Acquisition Module consist of two parts. The Setup part will install the Data Acquisition Module on your local hard disk. Afterwards, it can be activated on multiple databases using the PLA Package Management.

SETUP

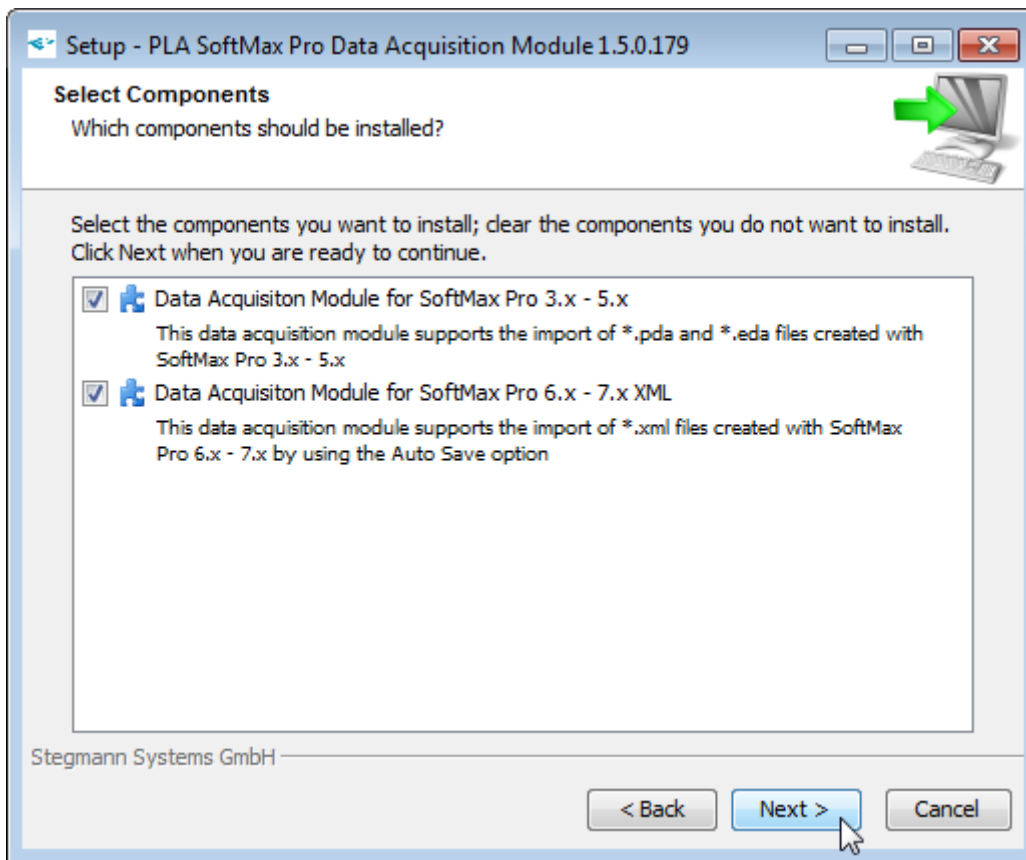
To install the Data Acquisition Module, start the installation program using a Microsoft Windows Administrator account.



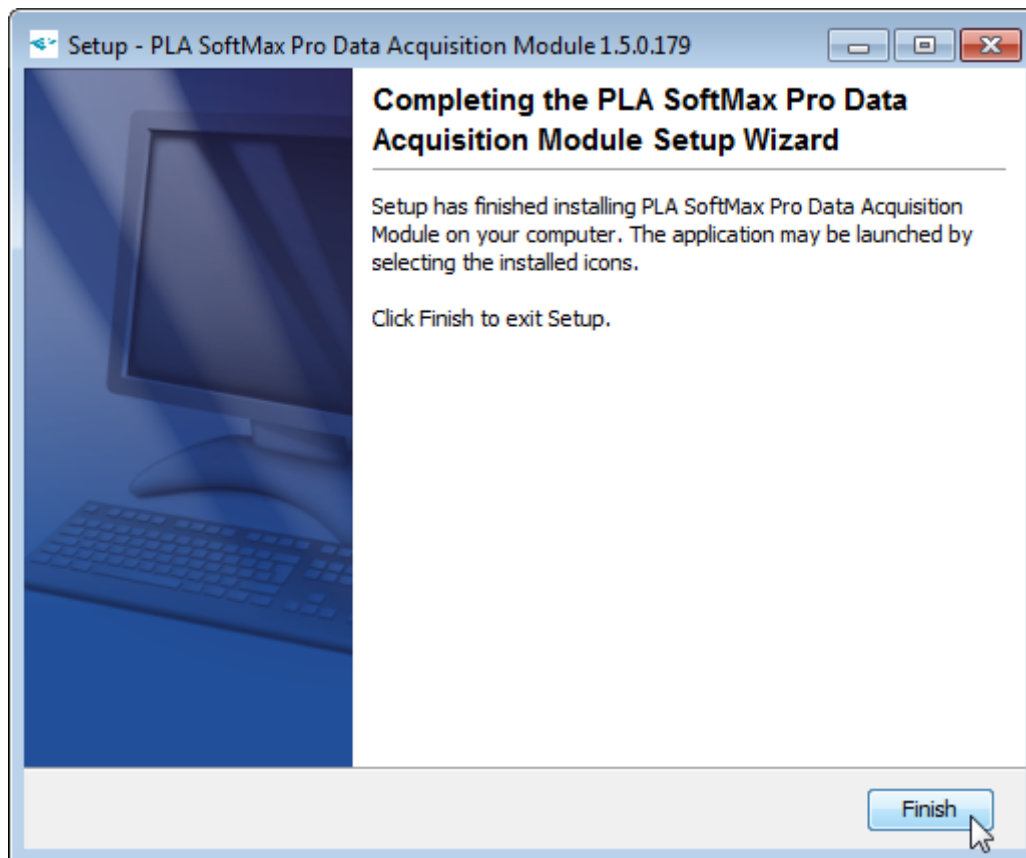
Follow the on-screen instructions.



As the setup delivers both the SoftMax® Pro 3.x – 5.x Data Acquisition Module and the SoftMax® Pro 6.x - 7.x XML Data Acquisition Module, you can choose which modules should be installed by selecting or deselecting them in the setup:



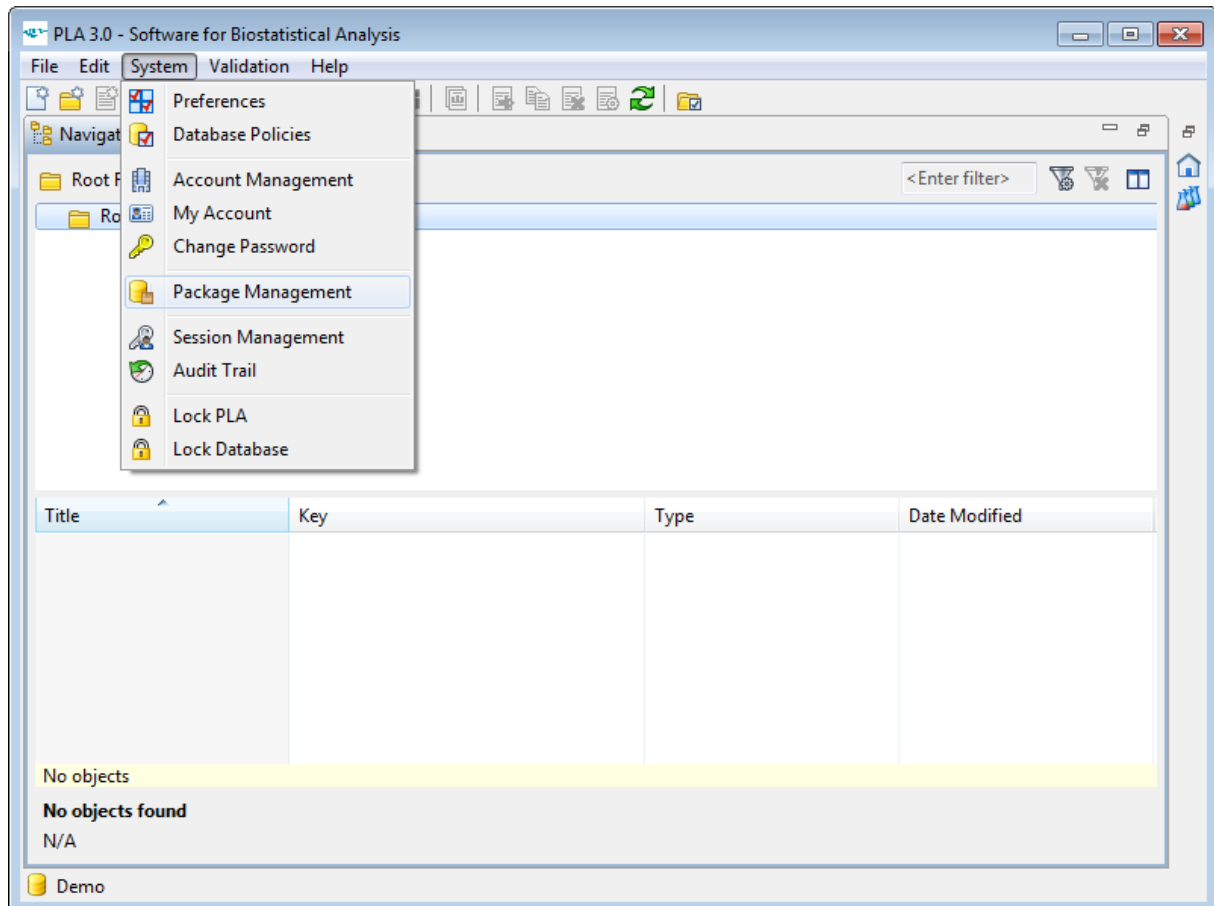
When the installation finished successfully, close the installation program using the **Finish** button.



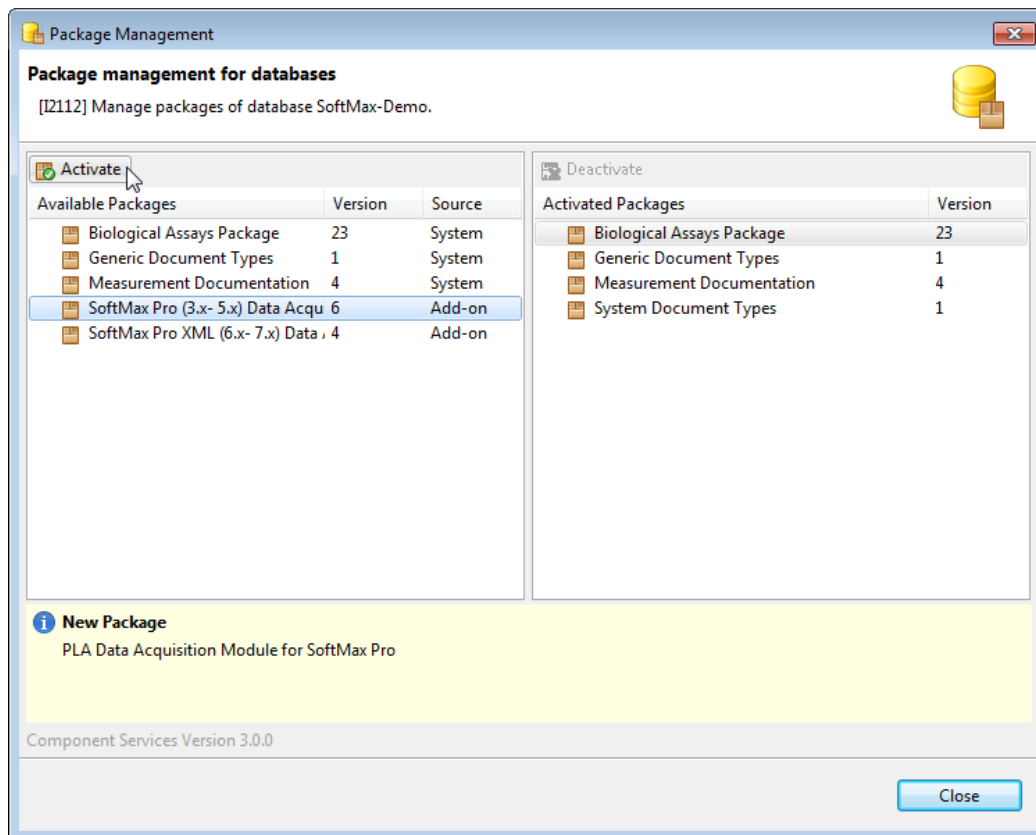
PACKAGE MANAGEMENT

To use one of the SoftMax® Pro Data Acquisition Modules, it has to be activated in the specific database.

To make a module available in a PLA database, a PLA user account with the permission to view and manage packages is required. Log in to PLA using a user account with the required permissions and open the **Package Management** from the **System** menu.



Select the SoftMax Pro Data Acquisition Module which should be activated out of the list of available packages and click the **Activate** button.



PLA will activate the selected Data Acquisition Module in the database. When the activation is complete, the package will be listed as activated package. The Data Acquisition Module can now be used to acquire data into PLA Quantitative Response Assays, using the **Acquire Data** action of the PLA document editor.

