Using the Software AG IDL Extractor for PL/I

This chapter describes how to use the IDL Extractor for PL/I. It covers the following topics:

- Extracting Software AG IDL File from Local PL/I Source File
- Extract Software AG IDL File from a Remote PL/I RPC Environment
- Extraction Result
- Preferences

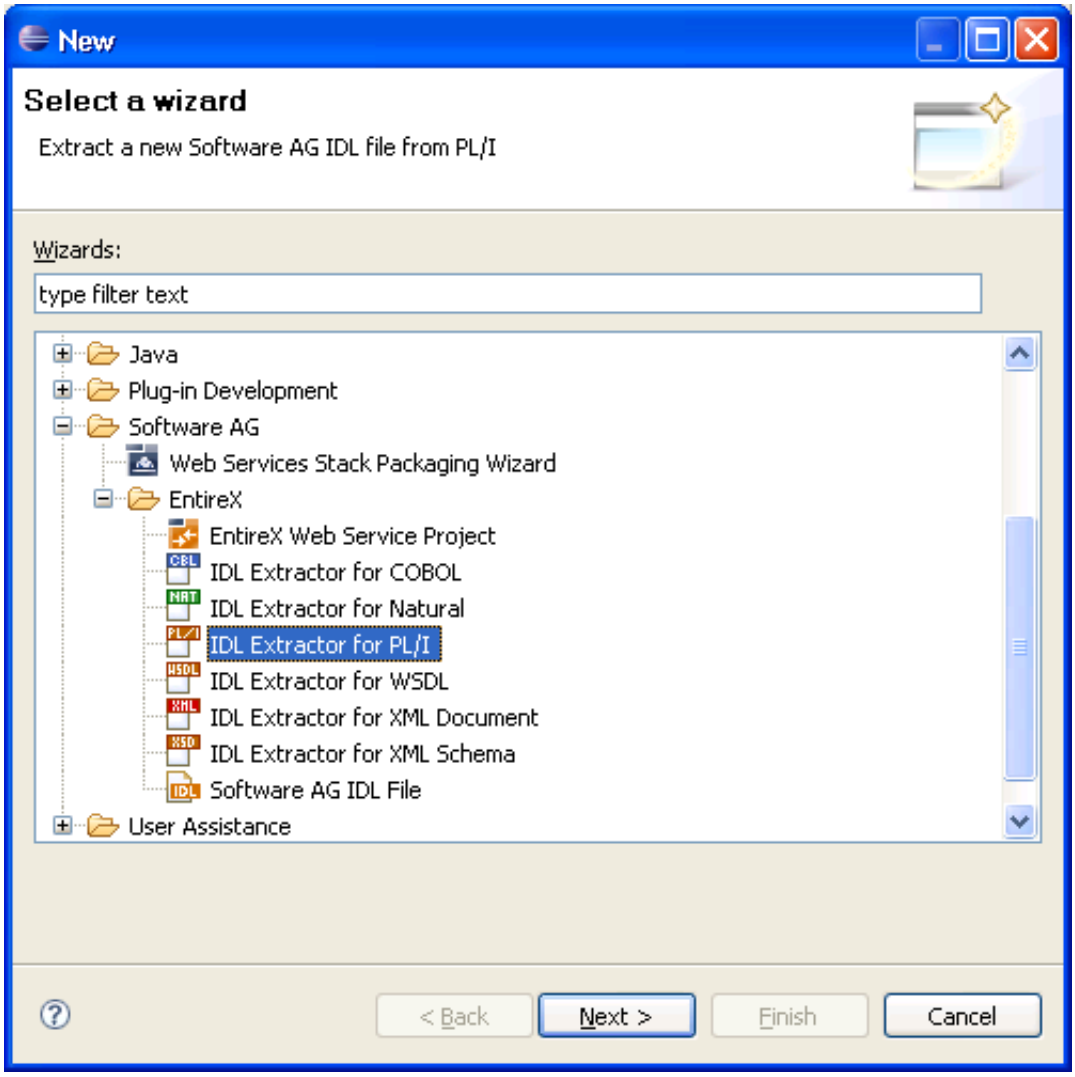
Extracting Software AG IDL File from Local PL/I Source File

This section covers the following topics:

- Start the Wizard
- Select a Source
- Select the File Container

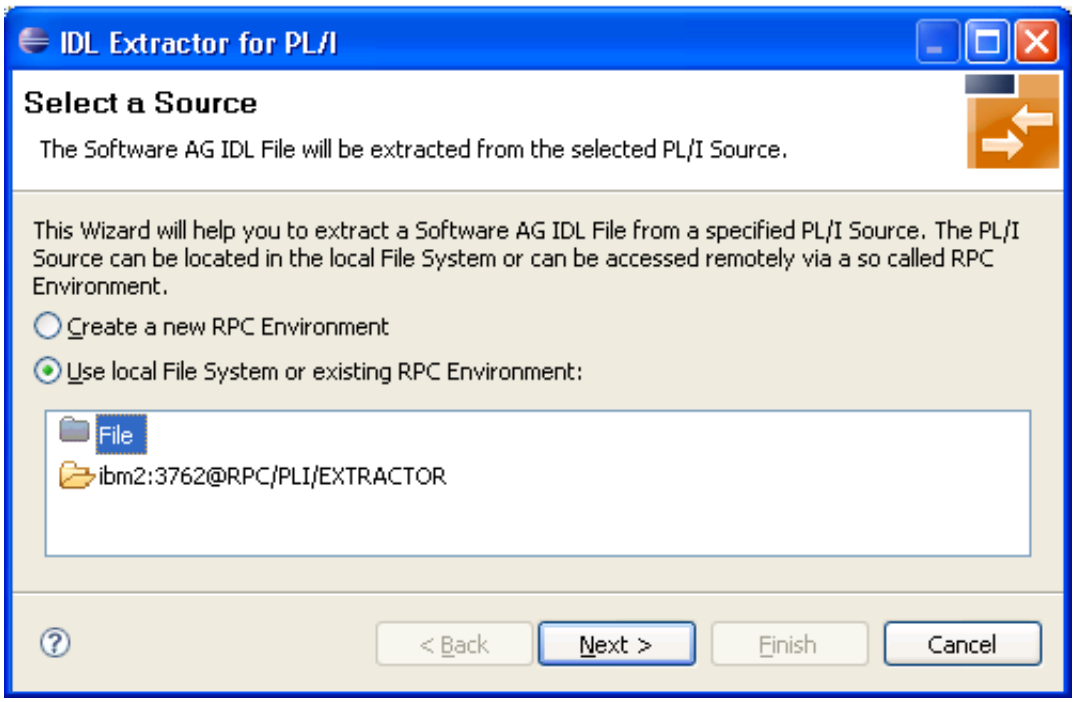
Start the Wizard

Start the IDL Extractor for PL/I Wizard. When the PL/I source file to extract is available in your workspace and you have selected it, the file location will be entered in the wizard automatically.

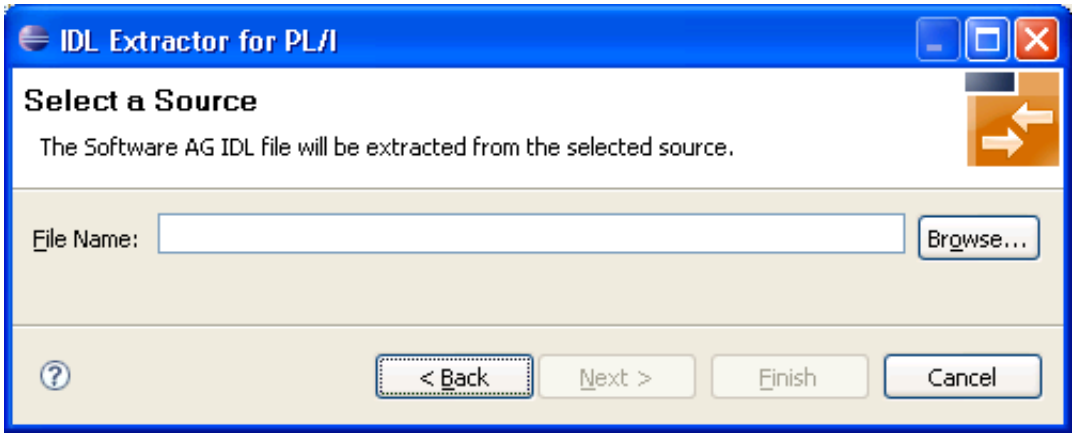


Select a Source

Select **Use local File System or existing RPC Environment**, choose **File** and press **Next**.



If you selected the PL/I source file before you started the wizard, the file location is already present, otherwise press Enter or click **Browse** for the PL/I source file.

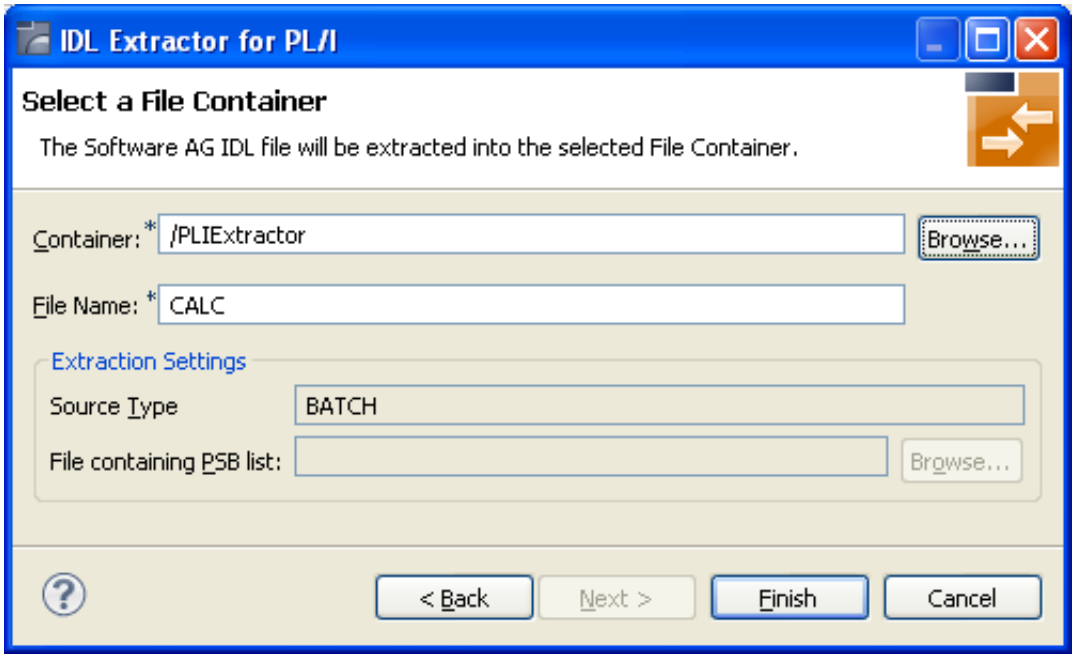


Select the File Container

Select the **Container** where the Software AG IDL file will be stored. Enter the **File Name** of the new IDL file.

The following rules apply to the **Extraction Settings**:

- The **Source Type** must match the PL/I programs you are extracting, otherwise extractions fails. Adjust the source type in the Preferences; see *Preferences*.
- For the source type IMS, optionally IMS-specific PCB pointers can be provided in a so-called PSB List in the field **File containing PSB List**. See *PSB List*. The IDL Extractor for PL/I then marks these parameters with the IMS attribute. See `attribute-list`. This is required to create RPC clients correctly calling IMS BMP programs with PCB pointers successfully.



Press **Finish** to extract. For more information see *Extraction Result*.

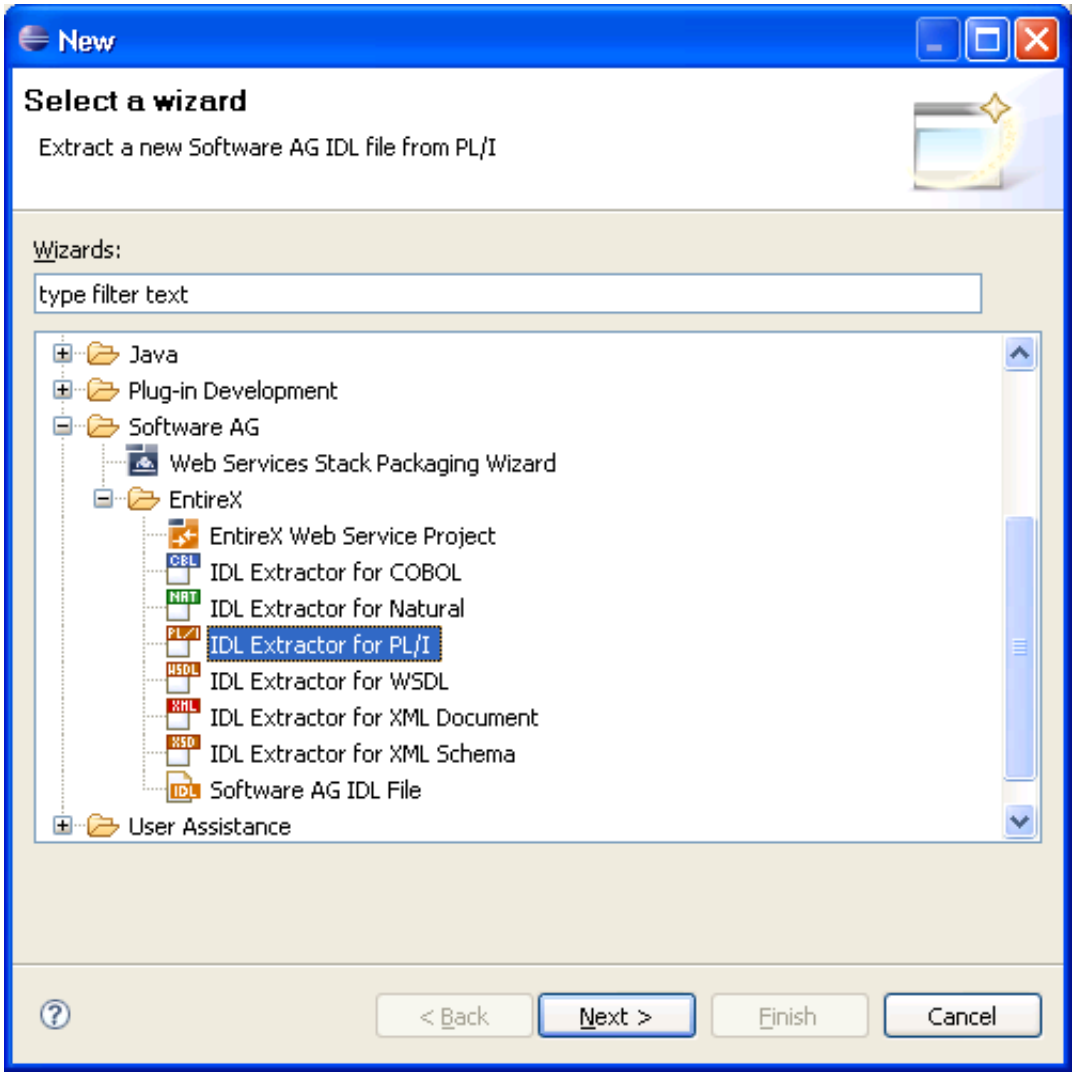
Extract Software AG IDL File from a Remote PL/I RPC Environment

This section covers the following topics:

- Start the Wizard
- Select an RPC Environment
- Create RPC Environment (Optional)
- Select Data Set (Optional)
- Select Source and Extract

Start the Wizard

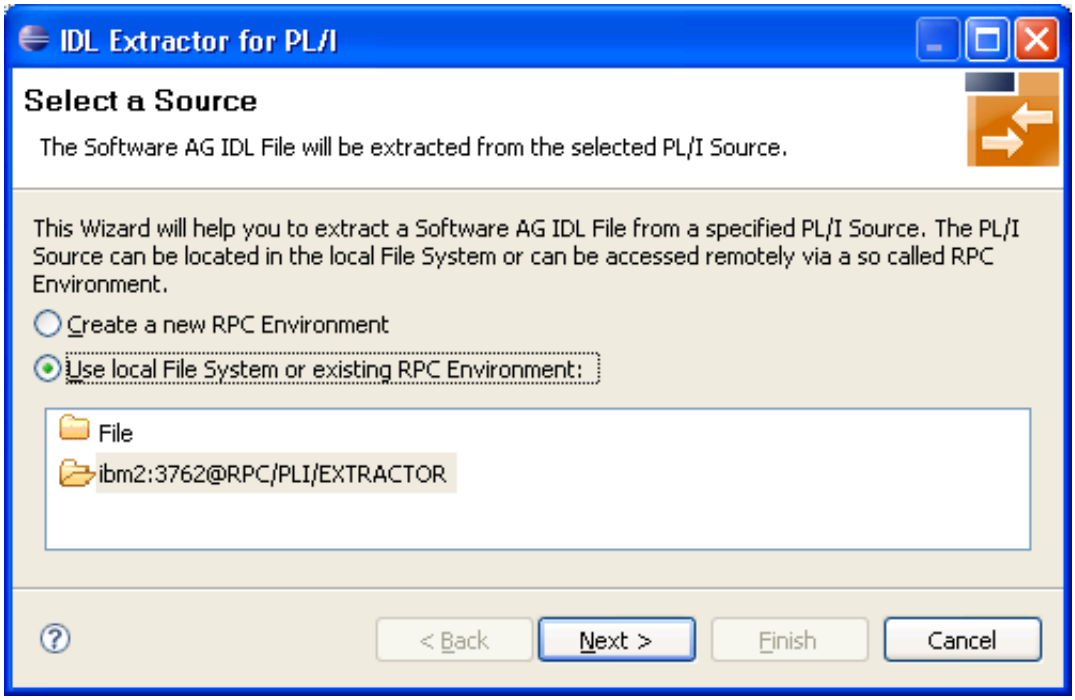
Start the **IDL Extractor for PL/I Wizard**.



Select an RPC Environment

Select **Create a new RPC Environment** and press **Next** if no RPC environment exists or you want to create a new RPC environment. Continue with instructions under *Create RPC Environment (Optional)*.

Select **Use local File System or existing RPC Environment**, choose the RPC environment from the list below and press **Next**. Continue with instructions under *Select Data Set (Optional)*.



Create RPC Environment (Optional)

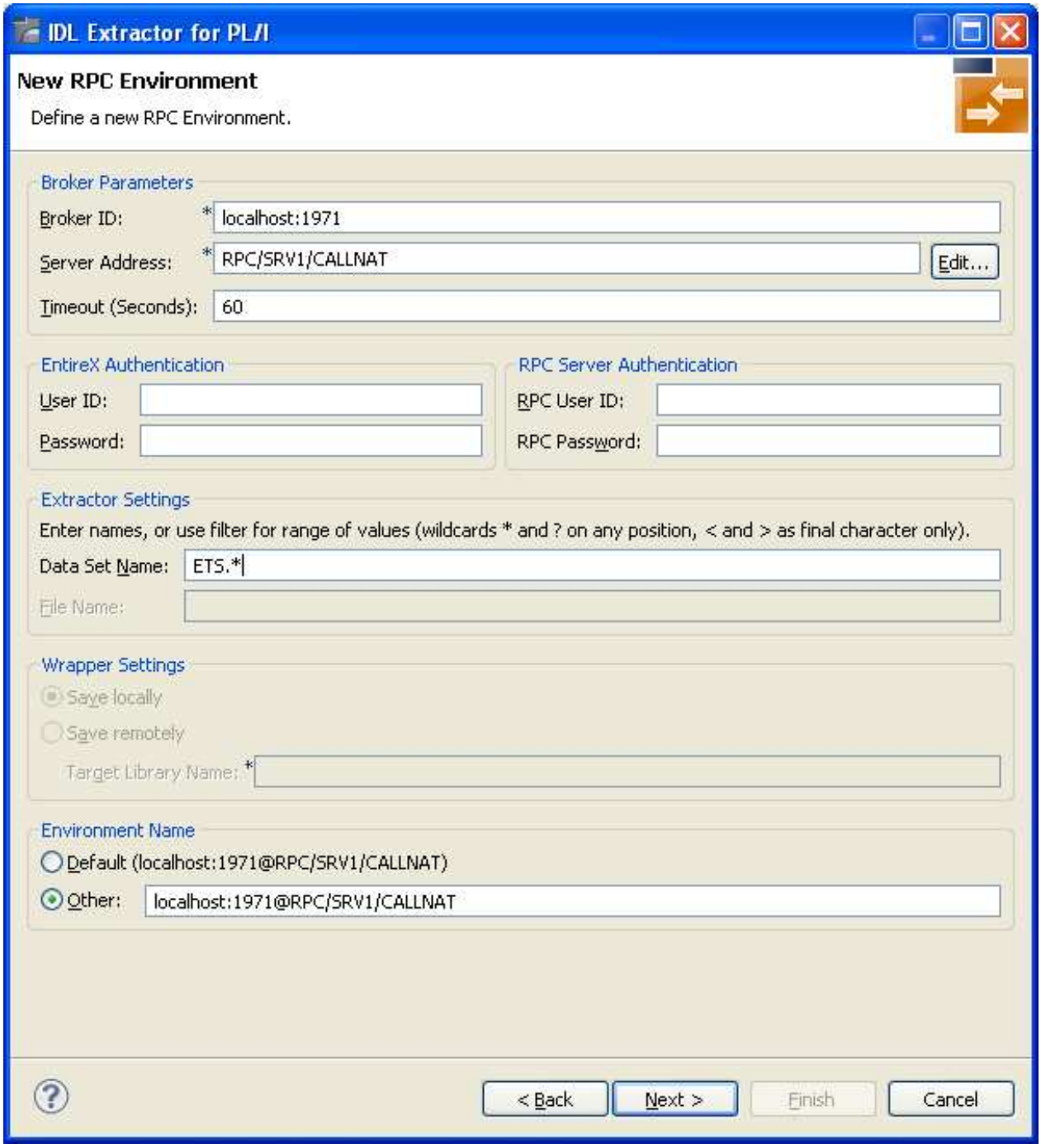
The connection to the Extractor Service to browse for PL/I programs is defined on the **RPC Environment** page. See *Extractor Service*.

In the **Broker Parameters**, required fields are **Broker ID** and **Server Address**, which have the default format "brokerID@serverAddress". The given Timeout value must be in the range from 1 to 9999 seconds (default: 60).

The **EntireX Authentication** describes the settings for the Broker, the RPC Server Authentication the settings for the RPC Server.

The following rules apply to the **Extractor Settings**:

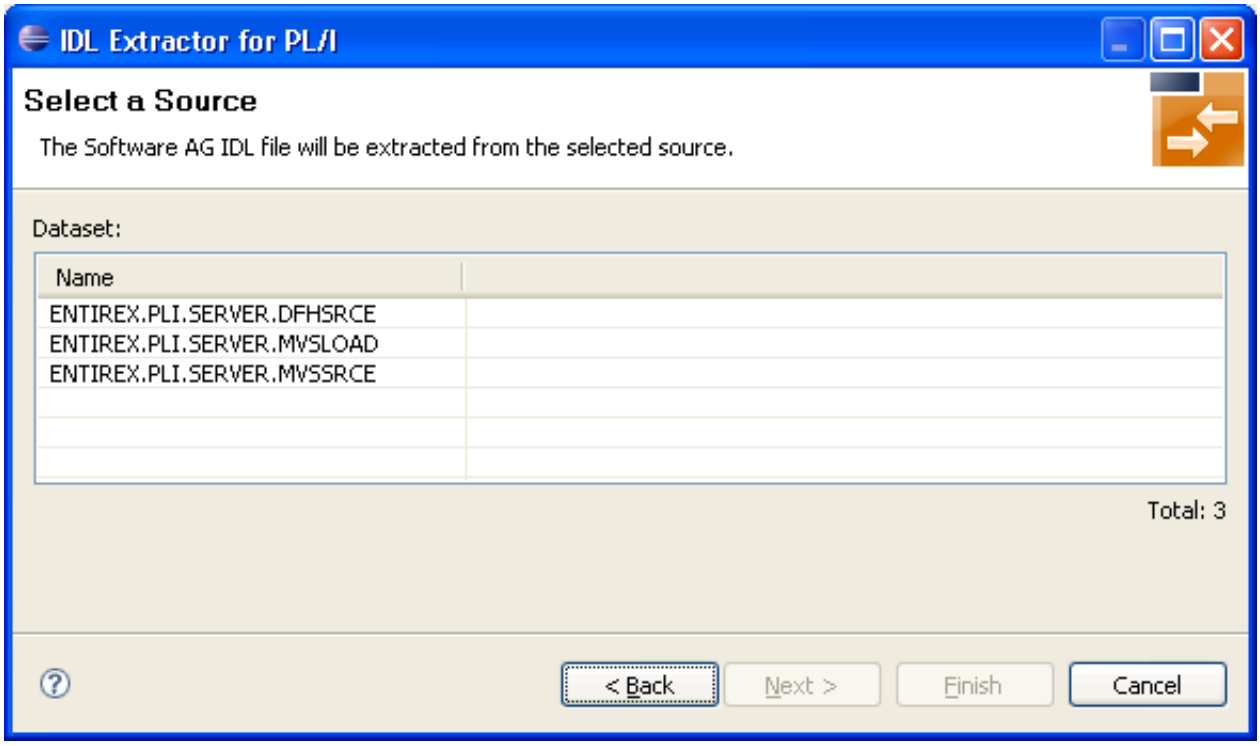
- A high-level qualifier is required in the **Data Set Name** or **HLQ** field. The Extractor Service will then offer only data sets with this high-level qualifier.
- In the **Member Name** field you can provide a prefix for the partitioned data set or CA Librarian members. The Extractor Service will then offer only members beginning with this prefix.



The RPC environments are managed in the Preferences. See *RPC Environment Manager*.

Select Data Set (Optional)

The following page offers all data sets starting with the high-level qualifier defined in the **Filter Settings** of the remote PL/I RPC environment. Select the data set from the list and press **Next**.

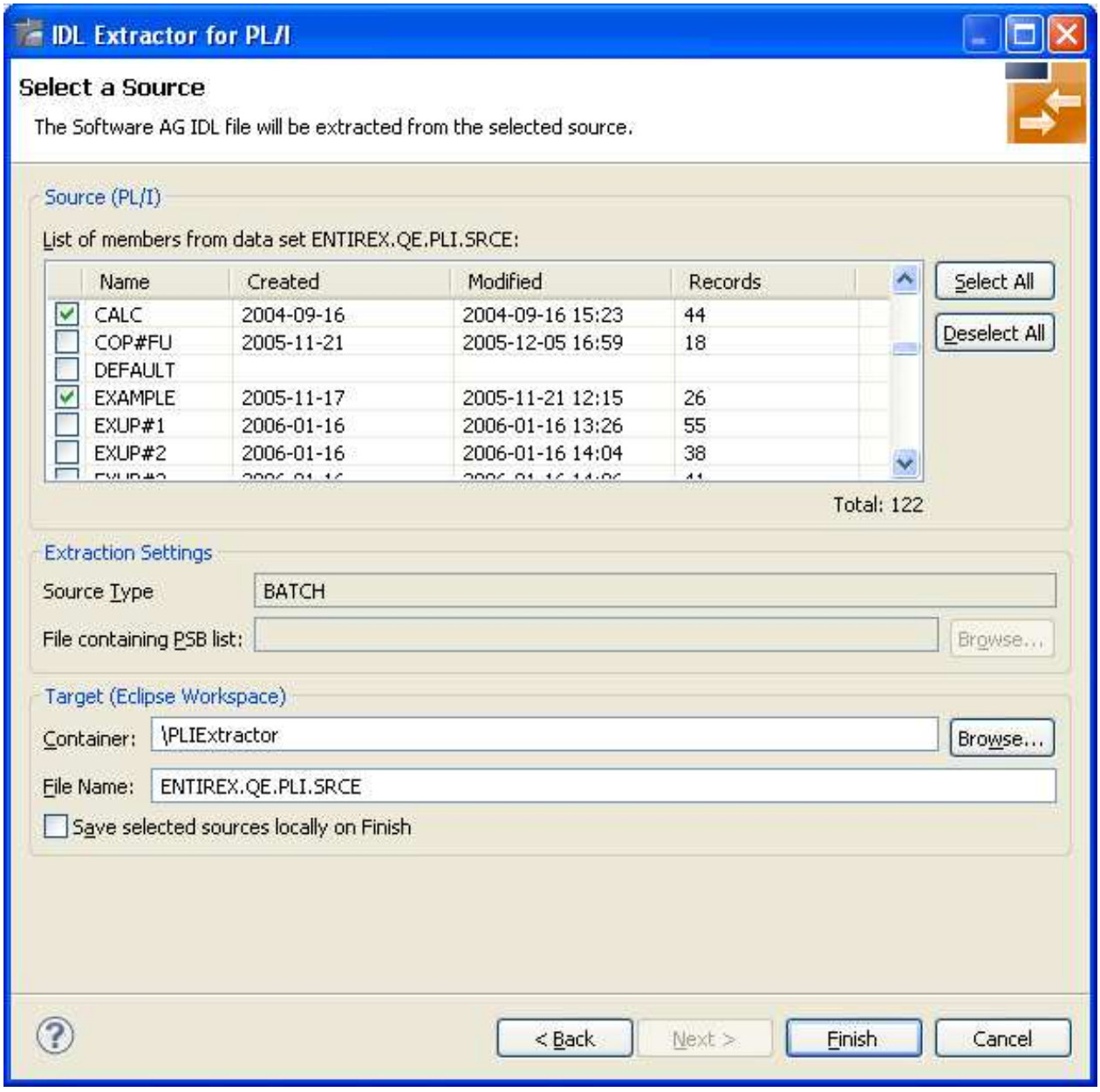


Select Source and Extract

In the **Source** pane, select at least one PL/I file from the **Member** list. The buttons on the right allow you to **Select All** or **Deselect All** members from the list.

The following applies to the **Extraction Settings** pane:

- The Source Type must match the PL/I programs you are extracting, otherwise extractions fails. Adjust the source type in the Preferences; see *Preferences*.
- For the source type IMS, optionally IMS-specific PCB pointers can be provided in a so-called PSB List in the field **File containing PSB List**. See *PSB List*. The IDL Extractor for PL/I then marks these parameters with the IMS attribute. See `attribute-list`. This is required to create RPC clients correctly calling IMS BMP programs with PCB pointers successfully.
- In the **Target (Eclipse Workspace)** pane, select the Container where the IDL file will be stored. Enter the name of the new IDL file.



Press **Finish** to extract. For more information see *Extraction Result*.

Extraction Result

When the operation is completed, the IDL file is opened with the IDL Editor.

If the PL/I source contains *IMS-specific PCB Pointers* as described in the IMS RPC Server documentation, the extracted IDL contains those pointers marked with the attribute "`IMS`" see `attribute-list` under *Software AG IDL Grammar*. As a preceding step, use the PL/I Wrapper to generate server interface object(s) and provide them to the IMS RPC Server. See *Using the PL/I Wrapper for IMS BMP*.

If the PL/I source file contains parameters that cannot be mapped to IDL parameters, an IDL file with incorrect IDL syntax is created. The unsupported parameters lead to IDL parameters of data type "Error", which is not supported. The **Problems View** of the PL/I source file contains markers for all unsupported parameters.

Preferences

The preference page for IDL Extractor for PL/I manages the default values for the IDL Extractor for PL/I Wizard.

The following applies to the **Extraction Settings** pane:

- The Source Type must match the PL/I programs you are extracting, otherwise extractions fails. Adjust the source type in the Preferences.
- For the source type IMS, optionally IMS-specific PCB pointers can be provided in a so-called PSB List in the field **File containing PSB List**. See *PSB List*. The IDL Extractor for PL/I then marks these parameters with the IMS attribute. See `attribute-list`. This is required to create RPC clients correctly calling IMS BMP programs with PCB pointers successfully.