Using the Natural Wrapper in Command-line Mode

- Command-line Options

- Example: Generating an RPC Client

- Example: Generating an RPC Server

- Further Examples

Command-line Options

This section provides the command-line options for the following tasks:

- Generating a Natural RPC Client from an IDL File

- Generating a Natural RPC Server from an IDL File

See *Using the EntireX Workbench in Command-line Mode* for the general command-line syntax.

Generating a Natural RPC Client from an IDL File

To generate a Natural RPC client from the specified IDL file, use the following command with options in table below:

```
-natural:client
```

Option	Description
-brokerpassword	Password used for broker authentication.
-brokeruser	User used for broker authentication.
-environment	Name of the environment or an RPC server description.
-help	Display this usage message.
-operationtype	The operation type. Valid values are: **SAVE** Generate Natural interface objects remotely on the server side **GET** Generate Natural interface objects locally using Software AG Designer
-overwrite	Overwrite existing Natural interface objects on the server side (SAVE command only).
-targetlibrary	The target library for the Natural interface objects on the server side (SAVE command only).
-rpcpassword	Password used for RPC server authentication.
-rpcuser	User used for RPC server authentication.

Generating a Natural RPC Server from an IDL File

To generate a Natural RPC server from the specified IDL file, use the following command with options in table below:

```
-natural:server
```

Option	Description
`-brokerpassword`	Password used for broker authentication.
`-brokeruser`	User used for broker authentication.
`-environment`	Name of the environment or an RPC server description.
`-help`	Display this usage message.
`-operationtype`	The operation type. Valid values are: **SAVE** Generate Natural interface objects remotely on the server side. **GET** Generate Natural interface objects locally using Software AG Designer.
`-overwrite`	Overwrite existing Natural interface objects on the server side (SAVE command only).
`-targetlibrary`	The target library for the Natural interface objects on the server side (SAVE command only).
`-rpcpassword`	Password used for RPC server authentication.
`-rpcuser`	User used for RPC server authentication.

Example: Generating an RPC Client

```
<workbench> -natural:client /Demo/Example.idl -environment localhost:1971@SRV1 -operationtype SAVE -targetlibrary MYLIB
```

where `<workbench>` is a placeholder for the actual Workbench starter as described under *Using the EntireX Workbench in Command-line Mode*.

The name of the IDL file includes the project name. In the example, the project *Demo* is used. If the IDL file name describes a file inside the Eclipse workspace, the name is case-sensitive.

If the first part of the IDL file name is not a project name in the current workspace, the IDL file name is used as a relative (based on the IDL file) or absolute file name in the file system. Thus, the IDL files do not need to be part of an Eclipse project.

Example: Generating an RPC Server

```
<workbench> -natural:server /Demo/Example.idl -environment localhost:1971@SRV1 -operationtype SAVE -targetlibrary MYLIB
```

where `<workbench>` is a placeholder for the actual Workbench starter as described under *Using the EntireX Workbench in Command-line Mode*.

> ⚠ **Warning:**
> **Take care not to overwrite an existing server implementation with a server skeleton. We recommend you move your server implementation to a different folder.**

Further Examples

Example 1

```
<workbench> -natural:client /Demo/example.idl -environment localhost:1971@SRV1 -operationtype GET
```

Uses the IDL file */Demo/example.idl* and generates the Natural source files in parallel to the IDL file of the project */Demo*. Output to standard output:

```
Using workspace file:/C:/myWorkspace/.
Processing IDL file C:/myWorkspace/Demo/example.idl to get the Natural interface objects via RPC environment localhost:1971@SRV1
Store Natural Source file C:\myWorkspace\Demo/CALC.NSN
Exit value: 0
```

Example 2

```
<workbench> -natural:client /Demo/example.idl -environment localhost:1971@SRV1 -operationtype SAVE -targetlibrary TEST
```

Uses the IDL file */Demo/example.idl* and generates the Natural source files on the server side into the library TEST. Output to standard output:

```
Using workspace file:/C:/myWorkspace/.
Processing IDL file C:/myWorkspace/Demo/example.idl to stow the Natural interface objects via RPC environment localhost:1971@SRV1
Exit value: 0
```