

# Using the EntireX Workbench in Command-line Mode

The EntireX Workbench can also be used from a command line. The command entered depends on your operating system.

- Under Windows, the command line is available with the starter *workbench.bat*.
- Under Linux, the command line is available with script *workbench.bsh*.
- Under both operating systems, the command line is also available with the command for Eclipse using the Java Runtime.

In all alternatives, a command is followed by a list of file names and a list of options. The file names may contain an asterisk (\*) as a wildcard. The options are key-value pairs, where the key starts with a hyphen. The command selects the Wrapper or Extractor to use. The detailed options for each command are described in the respective Wrapper or Extractor section. Using `-help` as command lists all available commands with a short description. Using `-help <command>` lists the options of the command.

For a detailed description of each Wrapper or Extractor, see the documentation of this component. Throughout these detailed descriptions we use `<workbench>` as a general placeholder for the actual starter of the Workbench. This can be `workbench.bat`, `workbench.bsh`, or the Eclipse starter.

- Command Line under Windows
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## Command Line under Windows

Enter the following command, replacing `<EntireX HOME>` with your EntireX installation directory:

```
<EntireX HOME>\bin\workbench.bat <command> [ <file> [ <file> ... ] ]
[<options>]
```

This is the preferred method to start the EntireX Workbench. Alternatively, you can start the EntireX Workbench with

```
"%ECLIPSE_HOME%\eclipse" -application
com.softwareag.entirex.ide.eclipse.EntireXCommand -data %WORKSPACE%
-nosplash <command> [ <file> [ <file> ... ] ] [<options>]
```

where `ECLIPSE_HOME` is the Eclipse installation directory

`WORKSPACE` is the Eclipse workspace directory.

## Command Line under Linux

Enter the following command:

```
/opt/softwareag/EntireX/bin/workbench.bsh <command> [ <file> [
<file> ... ] ] [<options>]
```

or

```
eclipse -vm $ECLIPSE_HOME/bin/ -application
com.softwareag.entirex.ide.eclipse.EntireXCommand -data $WORKSPACE
-nosplash <command> [ <file> [ <file> ... ] ] [<options>] -vmargs
-Dentirex.license=/opt/softwareag/EntireX/common/conf/LKey/exx97.xml
```

where `ECLIPSE_HOME` is the Eclipse installation directory

`WORKSPACE` is the Eclipse workspace directory.

## List of all Commands

Command	Description	Syntax / Examples
<code>-c:client</code>	Generate an RPC client from an IDL file.	<i>Using the C Wrapper in Command-line Mode</i>
<code>-c:server</code>	Generate an RPC server from an IDL file.	
<code>-cobol:client</code>	Generate a COBOL RPC client from an IDL file.	<i>Using the COBOL Wrapper in Command-line Mode</i>
<code>-cobol:server</code>	Generate a COBOL RPC server from an IDL file.	
<code>-dcom:generate</code>	Generate the DCOM Wrapper object(s) for the specified IDL file(s).	<i>Using the DCOM Wrapper in Command-line Mode</i>
<code>-ejb:generate</code>	Generate the EJB sources for the specified IDL file(s).	<i>Using the Wrapper for EJB in Command-line Mode</i>
<code>-deploy:cobol</code>	Deploy server-side mapping files (Workbench file with extension <code>.svm</code> ) to the specified environment. See <i>Server Mapping Files for COBOL</i> .	<i>Command-line Mode</i>
<code>-extract:natural</code>	Extract the Natural sources or objects from a Natural RPC Server.	<i>Using the IDL Extractor for Natural in Command-line Mode</i>

Command	Description	Syntax / Examples
-extract:pli	Extract the PL/I sources from an RPC Extractor Service.	<i>Using the IDL Extractor for PL/I in Command-line Mode</i>
-extract:wSDL	Extract an IDL file and an XMM file from a Web service.	<i>Using the IDL Extractor for WSDL in Command-line Mode</i>
-extract:xml	Extract an IDL file and an XMM file from an XML Document.	<i>Using the IDL Extractor for XML Document in Command-line Mode</i>
-extract:xsd	Extract an IDL file and an XMM file from an XML Schema.	<i>Using the IDL Extractor for XML Schema in Command-line Mode</i>
-help	List the short description of all commands.	
-java:all	Generate all Java source files for the specified IDL file(s).	<i>Using the Java Wrapper in Command-line Mode</i>
-java:allbeancompliant	Generate all Java source files for the specified IDL file(s). The client object will be JavaBean-compliant.	
-java:client	Generate the Java client(s) for the specified IDL file(s).	
-java:clientbeancompliant	Generate the JavaBean-compliant Java client(s) for the specified IDL file(s).	
-java:server	Generate the Java server(s) for the specified IDL file(s).	
-java:tester	Generate the Java client(s) and tester(s) for the specified IDL file(s).	
-list:natural	List the Natural sources or objects from a Natural RPC Server.	<i>Using the IDL Extractor for Natural in Command-line Mode</i>
-list:pli	List the PL/I sources on an RPC Extractor Service.	<i>Using the IDL Extractor for PL/I in Command-line Mode</i>

<b>Command</b>	<b>Description</b>	<b>Syntax / Examples</b>
-map:soap	Create SOAP-conformant XML mapping for all programs.	<i>Using the XML/SOAP Wrapper in Command-line Mode</i>
-map:xmlattributes	Create attribute-preferred XML mapping for all programs.	
-map:xmlelements	Create element-preferred XML mapping for all programs.	
-map:xmlwithxsd	Create element-preferred XML mapping with XML Schema for all programs.	
-natural:client	Generate Natural RPC client from the specified IDL file.	<i>Using the Natural Wrapper in Command-line Mode</i>
-natural:server	Generate Natural RPC server from the specified IDL file.	
-pli:client	Generate a PL/I RPC client from the specified IDL file.	<i>Using the PL/I Wrapper in Command-line Mode</i>
-pli:server	Generate a PL/I RPC server from the specified IDL file.	
-version	Prints the version and exits.	
-wsdl	Generates WSDL for the specified IDL file(s).	<i>Using the Web Services Wrapper in Command-line Mode</i>
-xml:sample	Create sample XML documents for all programs.	<i>Using the XML/SOAP Wrapper in Command-line Mode</i>