



Artix™

Command Line Reference

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Preface

What is Covered in this Book

The *Artix Command Line Reference* provides a reference guide to the command line tools provided with Artix.

Who Should Read this Book

The *Artix Command Line Reference* is intended for Artix programmers. This guide assumes that the reader is familiar with the basics of WSDL and XML schemas. A basic knowledge of Artix concepts is presumed.

Finding Your Way Around the Library

The Artix library contains several books that provide assistance for any of the tasks you are trying to perform. The Artix library is listed here, with a short description of each book.

If you are new to Artix

You may be interested in reading:

- [Release Notes](#) contains release-specific information about Artix.
- [Installation Guide](#) describes the prerequisites for installing Artix and the procedures for installing Artix on supported systems.
- [Getting Started with Artix](#) describes basic Artix and WSDL concepts.

To design and develop Artix solutions

Read one or more of the following:

- [Designing Artix Solutions](#) provides detailed information about describing services in Artix contracts and using Artix services to solve problems.

- [Developing Artix Applications in C++](#) discusses the technical aspects of programming applications using the C++ API.
- [Developing Artix Plug-ins with C++](#) discusses the technical aspects of implementing plug-ins to the Artix bus using the C++ API.
- [Developing Artix Applications in Java](#) discusses the technical aspects of programming applications using the Java API.
- [Artix for CORBA](#) provides detailed information on using Artix in a CORBA environment.
- [Artix for J2EE](#) provides detailed information on using Artix to integrate with J2EE applications.
- [Artix Technical Use Cases](#) provides a number of step-by-step examples of building common Artix solutions.

To configure and manage your Artix solution

Read one or more of the following:

- [Deploying and Managing Artix Solutions](#) describes how to deploy Artix-enabled systems, and provides detailed examples for a number of typical use cases.
- [Artix Configuration Guide](#) explains how to configure your Artix environment. It also provides reference information on Artix configuration variables.
- [IONA Tivoli Integration Guide](#) explains how to integrate Artix with IBM Tivoli.
- [IONA BMC Patrol Integration Guide](#) explains how to integrate Artix with BMC Patrol.
- [Artix Security Guide](#) provides detailed information about using the security features of Artix.

Reference material

In addition to the technical guides, the Artix library includes the following reference manuals:

- [Artix Command Line Reference](#)
- [Artix C++ API Reference](#)
- [Artix Java API Reference](#)

Have you got the latest version?

The latest updates to the Artix documentation can be found at <http://www.iona.com/support/docs>.

Compare the version dates on the web page for your product version with the date printed on the copyright page of the PDF edition of the book you are reading.

Searching the Artix Library

You can search the online documentation by using the **Search** box at the top right of the documentation home page:

<http://www.iona.com/support/docs>

To search a particular library version, browse to the required index page, and use the **Search** box at the top right. For example:

<http://www.iona.com/support/docs/artix/3.0/index.xml>

You can also search within a particular book. To search within an HTML version of a book, use the **Search** box at the top left of the page. To search within a PDF version of a book, in Adobe Acrobat, select **Edit|Find**, and enter your search text.

Online Help

Artix Designer includes comprehensive online help, providing:

- Detailed step-by-step instructions on how to perform important tasks.
- A description of each screen.
- A comprehensive index, and glossary.
- A full search feature.
- Context-sensitive help.

There are two ways that you can access the online help:

- Click the Help button on the Artix Designer panel, or
- Select **Contents** from the Help menu

Additional Resources

The [IONA Knowledge Base](#) contains helpful articles written by IONA experts about Artix and other products.

The [IONA Update Center](#) contains the latest releases and patches for IONA products.

If you need help with this or any other IONA product, go to [IONA Online Support](#).

Comments, corrections, and suggestions on IONA documentation can be sent to docs-support@iona.com.

Document Conventions

Typographical conventions

This book uses the following typographical conventions:

`Fixed width`

Fixed width (courier font) in normal text represents portions of code and literal names of items such as classes, functions, variables, and data structures. For example, text might refer to the `IT_Bus : AnyType` class.

Constant width paragraphs represent code examples or information a system displays on the screen. For example:

```
#include <stdio.h>
```

Fixed width italic

Fixed width italic words or characters in code and commands represent variable values you must supply, such as arguments to commands or path names for your particular system. For example:

```
% cd /users/YourUserName
```

Italic

Italic words in normal text represent *emphasis* and introduce *new terms*.

Bold

Bold words in normal text represent graphical user interface components such as menu commands and dialog boxes. For example: the **User Preferences** dialog.

Keying Conventions

This book uses the following keying conventions:

No prompt	When a command's format is the same for multiple platforms, the command prompt is not shown.
%	A percent sign represents the UNIX command shell prompt for a command that does not require root privileges.
#	A number sign represents the UNIX command shell prompt for a command that requires root privileges.
>	The notation > represents the MS-DOS or Windows command prompt.
...	Horizontal or vertical ellipses in format and syntax descriptions indicate that material has been eliminated to simplify a discussion.
[]	Brackets enclose optional items in format and syntax descriptions.
{ }	Braces enclose a list from which you must choose an item in format and syntax descriptions.
	In format and syntax descriptions, a vertical bar separates items in a list of choices enclosed in { } (braces). In graphical user interface descriptions, a vertical bar separates menu commands (for example, select File Open).

PREFACE

Generating WSDL

Artix provides a number of command line tools for generating WSDL.

In this chapter

This chapter discusses the following topics:

Generating from Java Classes	page 2
Generating from CORBA IDL	page 4
Generating from a COBOL Copybook	page 7
Generating from an XMLSchema Document	page 9

Generating from Java Classes

Overview

Artix supplies a command line tool, `javatowsdl`, that generates the logical portion of an Artix contract for existing Java class files. `javatowsdl` uses the mapping rules described in Sun's JAX-RPC 1.1 specification.

JAVATOWSDL**Synopsis**

```
javatowsdl [-t namespace] [-x namespace] [-i porttype] [-o
file] [-useTypes] [-v] [-?] [-L file] [q] [-h] [-V] ClassName
```

Options

The command has the following options:

<code>-t namespace</code>	Specifies the target namespace of the generated WSDL document. By default, the java package name will be used as the target namespace. If no package name is specified, the generated target namespace will be <code>http://www.iona.com\ClassName</code> .
<code>-x namespace</code>	Specifies the target namespace of the XMLSchema information generated to represent the data types inside the WSDL document. By default, the generated target namespace of the XMLSchema will be <code>http://www.iona.com\ClassName\xsd</code> .
<code>-i porttype</code>	Specifies the name of the generated <code><portType></code> in the WSDL document. By default the name of the class from which the WSDL is generated is used.
<code>-o file</code>	Specifies output file into which the WSDL is written.
<code>-useTypes</code>	Specifies that the generated WSDL will use types in the WSDL message parts. By default, messages are generated using wrapped <code>doc/literal</code> style. A wrapper element with a sequence will be created to hold method parameters.
<code>-v</code>	Prints out the version of the tool.
<code>-?</code>	Prints out a help message explaining the command line flags.
<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .

- q Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
- h Specifies that the tool will display a usage message.
- v Specifies that the tool runs in verbose mode.

The generated WSDL will not contain any physical details concerning the payload formats or network transports that will be used when exposing the service. You will need to add this information manually.

Note: When generating contracts, `javatowsdl` will add newly generated WSDL to an existing contract if a contract of the same name exists. It will not generate a new file or warn you that a previous contract exists.

Generating from CORBA IDL

Overview

IONA's IDL compiler supports several command line flags that specify how to create a WSDL file from an IDL file. The default behavior of the tool is to create WSDL file that uses wrapped doc/literal style messages. Wrapped doc/literal style messages have a single part, defined using an element, that wraps all of the elements in the message.

IDLTOWSDL

Synopsis

```
idltowSDL [-useypes] [-unwrap] [-a address] [-f file] [-o dir] [-s
type] [-r file] [-L file] [-P file] [-w namespace] [-x namespace] [-t
namespace] [-T file] [-n file] [-b] [-I
idlDir] [-qualified] [-inline] [-3] [-fasttrack] [-interface
name] [-soapaddr port] [-q] [-h] [-V] idlfile
```

Options

The command has the following options:

<code>-useypes</code>	Generate rpc style messages. rpc style messages have parts defined using XMLSchema types instead of XML elements.
<code>-unwrap</code>	Generate unwrapped doc/literal messages. Unwrapped messages have parts that represent individual elements. Unlike wrapped messages, unwrapped messages can have multiple parts and are not allowed by the WS-I.
<code>-a address</code>	Specifies an absolute address through which the object reference may be accessed. The <i>address</i> may be a relative or absolute path to a file, or a corbaname URL
<code>-f file</code>	Specifies a file containing a string representation of an object reference. The object reference is placed in the <code>corba:address</code> element in the <code>port</code> definition of the generated service. The <i>file</i> must exist when you run the IDL compiler.
<code>-o dir</code>	Specifies the directory into which the WSDL file is written.

<code>-s <i>type</i></code>	Specifies the XMLSchema type used to map the IDL <code>sequence<octet></code> type. Valid values are <code>base64Binary</code> and <code>hexBinary</code> . The default is <code>base64Binary</code> .
<code>-r <i>file</i></code>	Specify the pathname of the schema file imported to define the <code>Reference</code> type. If the <code>-r</code> option is not given, the idl compiler gets the schema file pathname from <code>etc/idl.cfg</code> .
<code>-L <i>file</i></code>	Specifies that the logical portion of the generated WSDL specification into is written to <i>file</i> . <i>file</i> is then imported into the default generated file.
<code>-P <i>file</i></code>	Specifies that the physical portion of the generated WSDL specification into is written to <i>file</i> . <i>file</i> is then imported into the default generated file.
<code>-w <i>namespace</i></code>	Specifies the namespace to use for the WSDL <code>targetNamespace</code> . The default is <code>http://schemas.ionas.com/idl/idl_name</code> .
<code>-x <i>namespace</i></code>	Specifies the namespace to use for the Schema <code>targetNamespace</code> . The default is <code>http://schemas.ionas.com/idltypes/idl_name</code> .
<code>-t <i>namespace</i></code>	Specifies the namespace to use for the CORBA TypeMapping <code>targetNamespace</code> . The default is <code>http://schemas.ionas.com/typemap/corba/idl_name</code> .
<code>-T <i>file</i></code>	Specifies that the schema types are to be generated into a separate file. The schema file is included in the generated contract using an import statement. This option cannot be used with the <code>-n</code> option.
<code>-n <i>file</i></code>	Specifies that a schema file, <i>file</i> , is to be included in the generated contract by an import statement. This option cannot be used with the <code>-T</code> option.
<code>-b</code>	Specifies that bounded strings are to be treated as unbounded. This eliminates the generation of the special types for the bounded string.
<code>-I <i>idlDir</i></code>	Specify a directory to be included in the search path for the IDL preprocessor. You can use this flag multiple times.
<code>-qualified</code>	Generates fully qualified WSDL.

<code>-inline</code>	Generates a contract that includes all imported documents in-line. This overrides all options that specify that a section of the contract is to be imported.
<code>-3</code>	Use relaxed IDL grammar checking semantics to allow IDL used by Orbix 3 to be parsed.
<code>-fasttrack</code>	Use the fasttrack wizard. You must also use the <code>-interface</code> and <code>-soapaddr</code> flags with this option. This option also adds a SOAP port and a route between the generated CORBA port and the generated SOAP port.
<code>-interface <i>name</i></code>	Specifies the IDL interface for which WSDL will be generated by the fasttrack wizard.
<code>-soapaddr <i>port</i></code>	Specifies the SOAP address to use in the generated <code>port</code> element when using the fasttrack wizard.
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-v</code>	Specifies that the tool runs in verbose mode.

To combine multiple flags in the same command, use a colon delimited list. The colon is only interpreted as a delimiter if it is followed by a dash. Consequently, the colons in a `corbaname` URL are interpreted as part of the URL syntax and not as delimiters.

Note: The command line flag entries are case sensitive even on Windows. Capitalization in your generated WSDL file must match the capitalization used in the prewritten code.

Generating from a COBOL Copybook

Overview

Artix provides a command line tool, `colboltowsdl`, that will import COBOL copybook data and generate an Artix contract containing a fixed binding to define the COBOL interface for Artix applications.

COLBOLTOWSDL

Synopsis

```
colboltowsdl -b binding -op operation -im [inmessage:] incopybook [-om
[outmessage:] outcopybook] [-fm [faultmessage:] faultbook] [-i
portType] [-t target] [-x schema_name] [-useTypes] [-o file] [-L
file] [-q] [-h] [-V]
```

Parameters

The command has the following required parameters:

<code>-b <i>binding</i></code>	Specifies the name for the generated binding.
<code>-op <i>operation</i></code>	Specifies the name for the generated operation.
<code>-im</code> <code>[<i>inmessage:</i>] <i>incopybook</i></code>	Specifies the name of the input message and the copybook file from which the data defining the message is taken. The input message name, <i>inmessage</i> , is optional. However, if the copybook has more than one 01 levels, you will be asked to choose the one you want to use as the input message.

Options

The command has the following options:

<code>-om</code> <code>[<i>outmessage:</i>] <i>outcopybook</i></code>	Specifies the name of the output message and the copybook file from which the data defining the message is taken. The output message name, <i>outmessage</i> , is optional. However, if the copybook has more than one 01 levels, you will be asked to choose the one you want to use as the output message.
--	--

<code>-fm</code> <code>[faultmessage:] faultbook</code>	Specifies the name of a fault message and the copybook file from which the data defining the message is taken. The fault message name, <i>faultmessage</i> , is optional. However, if the copybook has more than one 01 levels, you will be asked to choose the one you want to use as the fault message. You can specify more than one fault message.
<code>-i portType</code>	Specifies the name of the port type in the generated WSDL. Defaults to <i>bindingPortType</i> . ^a
<code>-t target</code>	Specifies the target namespace for the generated WSDL. Defaults to <code>http://www.ionac.com/binding</code> .
<code>-x schema_name</code>	Specifies the namespace for the schema in the generated WSDL. Defaults to <code>http://www.ionac.com/binding/types</code> .
<code>-useTypes</code>	Specifies that the generated WSDL will use <code>type</code> elements. Default is to generate <code>element</code> elements for schema types.
<code>-o file</code>	Specifies the name of the generated WSDL file. Defaults to <i>binding.wsdl</i> .
<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-v</code>	Specifies that the tool runs in verbose mode.

a. If *binding* ends in *Binding* or *binding*, it is stripped off before being used in any of the default names.

Once the new contract is generated, you will still need to add the port information before you can use the contract to develop an Artix solution.

Generating from an XMLSchema Document

Overview

Artix provides a command line tool, `xstowsdl`, that will import an XMLSchema document and generate an Artix contract containing a `types` element populated by the types defined in the XMLSchema document. The rest of the contract will be empty.

XDSTOWSDL

Synopsis

```
xstowsdl [-t namespace] [-n name] [-d dir] [-o file] [-?] [-v] [-verbose] [-L file] [-q] [-h] [-V] xsdurl
```

Options

The command has the following options:

<code>-t namespace</code>	Specifies the target namespace for the generated contract. The default is to use the Artix target namespace.
<code>-n name</code>	Specifies the name for the generated contract and is the value of the <code>name</code> attribute in the contract's root <code>definitions</code> element. The default is to use the schema document's file name.
<code>-d dir</code>	Specifies the output directory for the generated contract.
<code>-o file</code>	Specifies the filename for the generated contract. Defaults to the filename of the imported schema document. For example, if the imported schema document is stored in <code>maxwell.xsd</code> the resulting contract will be <code>maxwell.wsdl</code> .
<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.

- h Specifies that the tool will display a usage message.
- v Specifies that the tool runs in verbose mode.

Adding Bindings

Artix provides a tools for adding bindings to WSDL.

In this chapter

This chapter discusses the following topics:

Adding a SOAP Binding	page 12
Adding a CORBA Binding	page 14

Adding a SOAP Binding

Overview

Artix provides a tool, `wsdltosoap`, that will generate a SOAP binding from an existing logical interface defined in a WSDL `<portType>`. The tool will generate a new contract which includes the generated SOAP binding.

WSDLTOSOAP

Synopsis

```
wsdltosoap -i portType -n namespace wsd_file [-b binding] [-d
dir] [-o file] [-style {document|rpc}] [-use {literal|encoded}] [-L
file] [-q] [-h] [-V]
```

Parameters

The command has the following required parameters:

<code>-i portType</code>	Specifies the name of the port type being mapped to a SOAP binding.
<code>-n namespace</code>	Specifies the namespace to use for the SOAP binding.
<code>wsdl_file</code>	Specifies the WSDL file in which the logical binding is defined.

Options

The command has the following options:

<code>-b binding</code>	Specifies the name for the generated SOAP binding. Defaults to <code>portTypeBinding</code> .
<code>-d dir</code>	Specifies the directory into which the new WSDL file is written.
<code>-o file</code>	Specifies the name of the generated WSDL file. Defaults to <code>wsdl_file-soap.wsdl</code> .
<code>-style</code>	Specifies the encoding style to use in the SOAP binding. Defaults to <code>document</code> .
<code>-use</code>	Specifies how the data is encoded. Default is <code>literal</code> .
<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.

Notes

-v Specifies that the tool runs in verbose mode.

wsdltosoap does not support the the generatoin of document/encoded SOAP bindings.

Adding a CORBA Binding

Overview

The `wsdltocorba` tool adds CORBA binding information to an existing Artix contract. The generated WSDL file will also contain a CORBA port with no address specified.

WSDLTOCORBA

Synopsis

```
wsdltocorba -corba -i portType [-d dir] [-b binding] [-o file] [-n namespace] [-L file] [-q] [-h] [-V] wsdl_file
```

Parameters

The command has the following required parameters:

<code>-corba</code>	Instructs the tool to generate a CORBA binding for the specified port type.
<code>-i portType</code>	Specifies the name of the port type being mapped to a CORBA binding.
<code>wsdl_file</code>	Specifies the name of the WSDL file containing the logical interface to which the CORBA binding is mapped.

Options

The command has the following options:

<code>-d dir</code>	Specifies the directory into which the new WSDL file is written.
<code>-b binding</code>	Specifies the name for the generated CORBA binding. Defaults to <code>portTypeBinding</code> .
<code>-o file</code>	Specifies the name of the generated WSDL file. Defaults to <code>wsdl_file-corba.wsdl</code> .
<code>-n namespace</code>	Specifies the namespace to use for the generated CORBA typemap
<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-V</code>	Specifies that the tool runs in verbose mode.

Notes

By combining the `-idl` and `-corba` flags with `wsdltoCorba`, you can generate a CORBA binding for a logical operation and then generate the IDL for the generated CORBA binding. When doing so, you must also use the `-i portType` flag to specify the port type from which to generate the binding and the `-b binding` flag to specify the name of the binding to from which to generate the IDL.

Adding Services

Artix provides a tools for adding service definitions to WSDL.

In this chapter

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Adding an HTTP Service	page 18
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Adding a WebSphere MQ Service	page 26
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Adding an HTTP Service

Overview

The Artix `wsdltoservice` tool can generate an HTTP service from an existing logical interface defined in a WSDL `portType` element.

WSDLTOSERVICE -transport http/soap

Synopsis

```
wsdltoservice -transport soap/http [-e service] [-t port] [-b binding]
[-a address] [-hssdt serverSendTimeout] [-hscvt
serverReceiveTimeout] [-hstrc trustedRootCertificates] [-hsuss
useSecureSockets] [-hsct contentType] [-hssc
serverCacheControl] [-hsscse supressClientSendErrors] [-hsscre
supressClientReceiveErrors] [-hshka honorKeepAlive] [-hsmpps
serverMultiplexPoolSize] [-hsrurl redirectURL] [-hsc1
contentLocation] [-hsce contentEncoding] [-hsst serverType] [-hssc
serverCertificate] [-hsscc serverCertificateChain] [-hsspk
serverPrivateKey] [-hsspkp serverPrivateKeyPassword] [-hcst
clientSendTimeout] [-hccvt clientReceiveTimeout] [-hctrc
trustedRootCertificates] [-hcuss useSecureSockets] [-hcct
contentType] [-hccc clientCacheControl] [-hcar autoRedirect] [-hcun
userName] [-hcp password] [-hcat clientAuthorizationType] [-hca
clientAuthorization] [-hca accept] [-hcal acceptLanguage] [-hcae
acceptEncoding] [-hch host] [-hccn clientConnection] [-hcck
cookie] [-hcbt browserType] [-hcr referer] [-hcps proxyServer] [-hcpun
proxyUserName] [-hcpp proxyPassword] [-hcpat proxyAuthorizationType]
[-hcpa proxyAuthorization] [-hccce clientCertificate] [-hcccc
clientCertificateChain] [-hcpk clientPrivateKey] [-hcpkp
clientPrivateKeyPassword] [-o file] [-d dir] [-L file] [-q] [-h] [-V]
wsdlurl
```

Options

The command has the following options:

<code>-transport soap/http</code>	If the payload being sent over the wire is SOAP, use <code>-transport soap</code> . For all other payloads use <code>-transport http</code> .
<code>-e service</code>	Specifies the name of the generated service.
<code>-t port</code>	Specifies the value of the <code>name</code> attribute of the generated <code>port</code> element.
<code>-b binding</code>	Specifies the name of the binding for which the service is generated.

<code>-a address</code>	Specifies the value used in the <code>address</code> element of the port.
<code>-hssdt serverSendTimeout</code>	Specifies the number of milliseconds that the server can continue to try to send a response to the client before the connection is timed out.
<code>-hscvt serverReceiveTimeout</code>	Specifies the number of milliseconds that the server can continue to try to receive a request from the client before the connection is timed out.
<code>-hstrc trustedRootCertificates</code>	Specifies the full path to the X509 certificate for the certificate authority.
<code>-hsuss useSecureSockets</code>	Specifies if the server uses secure sockets. Valid values are <code>true</code> or <code>false</code> .
<code>-hsct contentType</code>	Specifies the media type of the information being sent in a server response.
<code>-hsc serverCacheControl</code>	Specifies directives about the behavior that must be adhered to by caches involved in the chain comprising a request from a client to a server.
<code>-hsscse suppressClientSendErrors</code>	Specifies whether exceptions are thrown when an error is encountered on receiving a client request. Valid values are <code>true</code> or <code>false</code> .
<code>-hsscre suppressClientReceiveErrors</code>	Specifies whether exceptions are thrown when an error is encountered on sending a response to a client. Valid values are <code>true</code> or <code>false</code> .
<code>-hshka honorKeepAlive</code>	Specifies if the server honors client keep-alive requests. Valid values are <code>true</code> or <code>false</code> .
<code>-hsmpps serverMultiplexPoolSize</code>	
<code>-hsrurl redirectURL</code>	Specifies the URL to which the client request should be redirected if the URL specified in the client request is no longer appropriate for the requested resource.
<code>-hsl contentLocation</code>	Specifies the URL where the resource being sent in a server response is located.

<code>-hsce <i>contentEncoding</i></code>	Specifies what additional content codings have been applied to the information being sent by the server, and what decoding mechanisms the client therefore needs to retrieve the information.
<code>-hsst <i>serverType</i></code>	Specifies what type of server is sending the response to the client.
<code>-hssc <i>serverCertificate</i></code>	Specifies the full path to the X509 certificate issued by the certificate authority for the server.
<code>-hsscc <i>serverCertificateChain</i></code>	Specifies the full path to the file that contains all the certificates in the chain.
<code>-hsspk <i>serverPrivateKey</i></code>	Specifies the full path to the private key that corresponds to the X509 certificate specified by <i>serverCertificate</i> .
<code>-hsspkp <i>serverPrivateKeyPassword</i></code>	Specifies a password that is used to decrypt the private key.
<code>-hcst <i>clientSendTimeout</i></code>	Specifies the number of milliseconds that the client can continue to try to send a request to the server before the connection is timed out.
<code>-hccvt <i>clientReceiveTimeout</i></code>	Specifies the number of milliseconds that the client can continue to try to receive a response from the server before the connection is timed out.
<code>-hctrc <i>trustedRootCertificates</i></code>	Specifies the full path to the X509 certificate for the certificate authority.
<code>-hcuss <i>useSecureSockets</i></code>	Specifies if the client uses secure sockets. Valid values are <i>true</i> or <i>false</i> .
<code>-hcct <i>contentType</i></code>	Specifies the media type of the data being sent in the body of the client request.
<code>-hccc <i>clientCacheControl</i></code>	Specifies directives about the behavior that must be adhered to by caches involved in the chain comprising a request from a client to a server.
<code>-hcar <i>autoRedirect</i></code>	Specifies if the server should automatically redirect client requests.
<code>-hcun <i>userName</i></code>	Specifies the username the client uses to register with servers.

<code>-hcp password</code>	Specifies the password the client uses to register with servers.
<code>-hcat</code> <code>clientAuthorizationType</code>	Specifies the authorization mechanisms the client uses when contacting servers.
<code>-hca clientAuthorization</code>	Specifies the authorization credentials used to perform the authorization.
<code>-hca accept</code>	Specifies what media types the client is prepared to handle.
<code>-hcal acceptLanguage</code>	Specifies what language the client prefers for the purposes of receiving a response
<code>-hcae acceptEncoding</code>	Specifies what content codings the client is prepared to handle.
<code>-hch host</code>	Specifies the internet host and port number of the resource on which the client request is being invoked.
<code>-hccn clientConnection</code>	Specifies if the client will open a new connection for each request or if it will keep the original one open. Valid values are <code>close</code> and <code>Keep-Alive</code> .
<code>-hcck cookie</code>	Specifies a static cookie to be sent to the server.
<code>-hcbt browserType</code>	Specifies information about the browser from which the client request originates.
<code>-hcr referer</code>	Specifies the value for the client's referring entity.
<code>-hcps proxyServer</code>	Specifies the URL of the proxy server, if one exists along the message path.
<code>-hcpun proxyUserName</code>	Specifies the username that the client uses to authorize with proxy servers.
<code>-hcpp proxyPassword</code>	Specifies the password that the client uses to authorize with proxy servers.
<code>-hcpat</code> <code>proxyAuthorizationType</code>	Specifies the authorization mechanism the client uses with proxy servers.
<code>-hcpa proxyAuthorization</code>	Specifies the actual data that the proxy server should use to authenticate the client.

<code>-hccce</code> <i>clientCertificate</i>	Specifies the full path to the X509 certificate issued by the certificate authority for the client.
<code>-hcccc</code> <i>clientCertificateChain</i>	Specifies the full path to the file that contains all the certificates in the chain.
<code>-hcpk</code> <i>clientPrivateKey</i>	Specifies the full path to the private key that corresponds to the X509 certificate specified by <i>clientCertificate</i> .
<code>-hcpkp</code> <i>clientPrivateKeyPassword</i>	Specifies a password that is used to decrypt the private key.
<code>-o</code> <i>file</i>	Specifies the filename for the generated contract. The default is to append <code>-service</code> to the name of the imported contract.
<code>-d</code> <i>dir</i>	Specifies the output directory for the generated contract.
<code>-L</code> <i>file</i>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-v</code>	Specifies that the tool runs in verbose mode.

Adding a CORBA Service

Overview

The Artix `wsdltoservice` tool can generate a CORBA service from an existing logical interface defined in a WSDL `portType` element.

WSDLTOSERVICE -transport corba

Synopsis

```
wsdltoservice -transport corba [-e service] [-t port] [-b binding] [-a
address] [-poa poaName] [-sid serviceId] [-pst persists] [-o file] [-d
dir] [-L file] [-q] [-h] [-V] wSDLurl
```

Options

The command has the following options:

<code>-e <i>service</i></code>	Specifies the name of the generated CORBA service.
<code>-t <i>port</i></code>	Specifies the value of the <code>name</code> attribute of the generated <code>port</code> element.
<code>-b <i>binding</i></code>	Specifies the name of the binding for which the service is generated.
<code>-a <i>address</i></code>	Specifies the value used in the <code>corba:address</code> element of the port.
<code>-poa <i>poaName</i></code>	Specifies the value of the POA name policy.
<code>-sid <i>serviceId</i></code>	Specifies the value of the ID assignment policy.
<code>-pst <i>persists</i></code>	Specifies the value of the persistence policy. Valid values are <code>true</code> and <code>false</code> .
<code>-o <i>file</i></code>	Specifies the filename for the generated contract. The default is to append <code>-service</code> to the name of the imported contract.
<code>-d <i>dir</i></code>	Specifies the output directory for the generated contract.
<code>-L <i>file</i></code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-V</code>	Specifies that the tool runs in verbose mode.

Adding an IIOP Service

Overview

The Artix `wsdltoservice` tool can generate an IIOP service from an existing logical interface defined in a WSDL `portType` element.

WSDLTOSERVICE -transport iiop

Synopsis

```
wsdltoservice -transport iiop [-e service] [-t port] [-b binding] [-a address] [-poa poaName] [-sid serviceId] [-pst persists] [-paytype payload] [-o file] [-d dir] [-L file] [-q] [-h] [-V] wsdurl
```

Options

The command has the following options:

<code>-e service</code>	Specifies the name of the generated IIOP service.
<code>-t port</code>	Specifies the value of the <code>name</code> attribute of the generated <code>port</code> element.
<code>-b binding</code>	Specifies the name of the binding for which the service is generated.
<code>-a address</code>	Specifies the value used in the <code><iiop:address></code> element of the port.
<code>-poa poaName</code>	Specifies the value of the POA name policy.
<code>-sid serviceId</code>	Specifies the value of the ID assignment policy.
<code>-pst persists</code>	Specifies the value of the persistence policy. Valid values are <code>true</code> and <code>false</code> .
<code>-paytype payload</code>	Specifies the type of data being sent in the message payloads. Valid values are <code>string</code> , <code>octets</code> , <code>imsraw</code> , <code>imsraw_binary</code> , <code>cicsraw</code> , and <code>cicsraw_binary</code> .
<code>-o file</code>	Specifies the filename for the generated contract. The default is to append <code>-service</code> to the name of the imported contract.
<code>-d dir</code>	Specifies the output directory for the generated contract.
<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.

- h Specifies that the tool will display a usage message.
- v Specifies that the tool runs in verbose mode.

Adding a WebSphere MQ Service

Overview

The Artix `wsdltoservice` tool can generate a WebSphere MQ service from an existing logical interface defined in a WSDL `portType` element.

WSDLTOSERVICE -transport mq

Synopsis

```
wsdltoservice -transport mq [-e service] [-t port] [-b binding] [-sqm
queueManager] [-sqn queue] [-srqm queueManager] [-srqn queue] [-smqn
modelQueue] [-sus usageStyle] [-scs correlationStyle] [-sam
accessMode] [-sto timeout] [-sme expiry] [-smp priority] [-smi
messageId] [-sci correlationId] [-sd delivery] [-st
transactional] [-sro reportOption] [-sf format] [-sad
applicationData] [-sat accountingToken] [-scn connectionName] [-sc
convert] [-scr reusable] [-scfp fastPath] [-said idData] [-saod
originData] [-cqmq queueManager] [-cqcn queue] [-crqm
queueManager] [-crqn queue] [-cmqn modelQueue] [-cus usageStyle] [-ccs
correlationStyle] [-cam accessMode] [-cto timeout] [-cme expiry] [-cmp
priority] [-cmi messageId] [-cci correlationId] [-cd delivery] [-ct
transactional] [-cro reportOption] [-cf format] [-cad
applicationData] [-cat accountingToken] [-ccn connectionName] [-cc
convert] [-ccr reusable] [-ccfp fastPath] [-caid idData] [-caod
originData] [-caqn queue] [-cui userId] [-o file] [-d dir] [-L
file] [-q] [-h] [-V] wsdlurl
```

Options

The command has the following options:

<code>-e service</code>	Specifies the name of the generated service.
<code>-t port</code>	Specifies the value of the <code>name</code> attribute of the generated <code>port</code> element.
<code>-b binding</code>	Specifies the name of the binding for which the service is generated.
<code>-sqm queueManager</code>	Specifies the name of the server's queue manager.
<code>-sqn queue</code>	Specifies the name of the server's request queue.
<code>-srqm queueManager</code>	Specifies the name of the server's reply queue manager.
<code>-srqn queue</code>	Specifies the name of the server's reply queue.

<code>-smqn <i>modelQueue</i></code>	Specifies the name of the server's model queue.
<code>-sus <i>usageStyle</i></code>	Specifies the value of the server's <code>UsageStyle</code> attribute. Valid values are <code>Peer</code> , <code>Requester</code> , or <code>Responder</code> .
<code>-scs <i>correlationStyle</i></code>	Specifies the value of the server's <code>CorrelationStyle</code> attribute. Valid values are <code>messageId</code> , <code>correlationId</code> , or <code>messageId copy</code> .
<code>-sam <i>accessMode</i></code>	Specifies the value of the server's <code>AccessMode</code> attribute. Valid values are <code>peek</code> , <code>send</code> , <code>receive</code> , <code>receive exclusive</code> , or <code>receive shared</code> .
<code>-sto <i>timeout</i></code>	Specifies the value of the server's <code>Timeout</code> attribute.
<code>-sme <i>expiry</i></code>	Specifies the value of the server's <code>MessageExpiry</code> attribute.
<code>-smp <i>priority</i></code>	Specifies the value of the server's <code>MessagePriority</code> attribute.
<code>-smi <i>messageId</i></code>	Specifies the value of the server's <code>MessageId</code> attribute.
<code>-sci <i>correlationId</i></code>	Specifies the value of the server's <code>CorrelationId</code> attribute.
<code>-sd <i>delivery</i></code>	Specifies the value of the server's <code>Delivery</code> attribute.
<code>-st <i>transactional</i></code>	Specifies the value of the server's <code>Transactional</code> attribute. Valid values are <code>none</code> , <code>internal</code> , or <code>xa</code> .
<code>-sro <i>reportOption</i></code>	Specifies the value of the server's <code>ReportOption</code> attribute. Valid values are <code>none</code> , <code>coa</code> , <code>cod</code> , <code>exception</code> , <code>expiration</code> , or <code>discard</code> .
<code>-sf <i>format</i></code>	Specifies the value of the server's <code>Format</code> attribute.
<code>-sad <i>applicationData</i></code>	Specifies the value of the server's <code>ApplicationData</code> attribute.
<code>-sat <i>accountingToken</i></code>	Specifies the value of the server's <code>AccountingToken</code> attribute.
<code>-scn <i>connectionName</i></code>	Specifies the name of the connection by which the adapter connects to the queue.

<code>-sc convert</code>	Specifies if the messages in the queue need to be converted to the system's native encoding. Valid values are <code>true</code> or <code>false</code> .
<code>-scr reusable</code>	Specifies the value of the server's <code>ConnectionReusable</code> attribute. Valid values are <code>true</code> or <code>false</code> .
<code>-scfp fastPath</code>	Specifies the value of the server's <code>ConnectionFastPath</code> attribute. Valid values are <code>true</code> or <code>false</code> .
<code>-said idData</code>	Specifies the value of the server's <code>ApplicationIdData</code> attribute.
<code>-saod originData</code>	Specifies the value of the server's <code>ApplicationOriginData</code> attribute.
<code>-cqm queueManager</code>	Specifies the name of the client's queue manager.
<code>-cqn queue</code>	Specifies the name of the client's request queue.
<code>-crqm queueManager</code>	Specifies the name of the client's reply queue manager.
<code>-crqn queue</code>	Specifies the name of the client's reply queue.
<code>-cmqn modelQueue</code>	Specifies the name of the client's model queue.
<code>-cus usageStyle</code>	Specifies the value of the client's <code>UsageStyle</code> attribute. Valid values are <code>Peer</code> , <code>Requester</code> , or <code>Responder</code> .
<code>-ccs correlationStyle</code>	Specifies the value of the client's <code>CorrelationStyle</code> attribute. Valid values are <code>messageId</code> , <code>correlationId</code> , or <code>messageId copy</code> .
<code>-cam accessMode</code>	Specifies the value of the client's <code>AccessMode</code> attribute. Valid values are <code>peek</code> , <code>send</code> , <code>receive</code> , <code>receive exclusive</code> , or <code>receive shared</code> .
<code>-cto timeout</code>	Specifies the value of the client's <code>Timeout</code> attribute.
<code>-cme expiry</code>	Specifies the value of the client's <code>MessageExpiry</code> attribute.
<code>-cmp priority</code>	Specifies the value of the client's <code>MessagePriority</code> attribute.
<code>-cmi messageId</code>	Specifies the value of the client's <code>MessageId</code> attribute.

<code>-cci correlationId</code>	Specifies the value of the client's <code>CorrelationId</code> attribute.
<code>-cd delivery</code>	Specifies the value of the client's <code>Delivery</code> attribute.
<code>-ct transactional</code>	Specifies the value of the client's <code>Transactional</code> attribute. Valid values are <code>none</code> , <code>internal</code> , or <code>xa</code> .
<code>-cro reportOption</code>	Specifies the value of the client's <code>ReportOption</code> attribute. Valid values are <code>none</code> , <code>coa</code> , <code>cod</code> , <code>exception</code> , <code>expiration</code> , or <code>discard</code> .
<code>-cf format</code>	Specifies the value of the client's <code>Format</code> attribute.
<code>-cad applicationData</code>	Specifies the value of the client's <code>ApplicationData</code> attribute.
<code>-cat accountingToken</code>	Specifies the value of the client's <code>AccountingToken</code> attribute.
<code>-ccn connectionName</code>	Specifies the name of the connection by which the adapter connects to the queue.
<code>-cc convert</code>	Specifies if the messages in the queue need to be converted to the system's native encoding. Valid values are <code>true</code> or <code>false</code> .
<code>-ccr reusable</code>	Specifies the value of the client's <code>ConnectionReusable</code> attribute. Valid values are <code>true</code> or <code>false</code> .
<code>-ccfp fastPath</code>	Specifies the value of the client's <code>ConnectionFastPath</code> attribute. Valid values are <code>true</code> or <code>false</code> .
<code>-caid idData</code>	Specifies the value of the client's <code>ApplicationIdData</code> attribute.
<code>-caod originData</code>	Specifies the value of the client's <code>ApplicationOriginData</code> attribute.
<code>-caqn queue</code>	Specifies the remote queue to which a server will put replies if its queue manager is not on the same host as the client's local queue manager.
<code>-cui userId</code>	Specifies the value of the client's <code>UserIdentification</code> attribute.
<code>-o file</code>	Specifies the filename for the generated contract. The default is to append <code>-service</code> to the name of the imported contract.

<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-v</code>	Specifies that the tool runs in verbose mode.
<code>-d dir</code>	Specifies the output directory for the generated contract.

Adding a JMS Service

Overview

The Artix `wsdltoservice` tool can generate a JMS service from an existing logical interface defined in a WSDL `portType` element.

WSDLTOSERVICE -transport jms

Synopsis

```
wsdltoservice -transport jms [-e service] [-t port] [-b binding] [-jds
destinationStyle] [-jpu jndiProviderURL] [-jcf
initialContextFactory] [-jfn jndiConnectionFactoryName] [-jdn
jndiDestinationName] [-jmt messageType] [-o file] [-d dir] [-L
file] [-q] [-h] [-V] wSDLurl
```

Options

The command has the following options:

<code>-e <i>service</i></code>	Specifies the name of the generated service.
<code>-t <i>port</i></code>	Specifies the value of the <code>name</code> attribute of the generated <code>port</code> element.
<code>-b <i>binding</i></code>	Specifies the name of the binding for which the service is generated.
<code>-jds <i>destinationStyle</i></code>	Specifies if the JMS destination is a JMS queue or a JMS topic.
<code>-jpu <i>providerURL</i></code>	Specifies the URL of the JNDI service where the connection information for the JMS destination is stored.
<code>-jcf <i>initialContextFactory</i></code>	Specifies the name of the <code>InitialContextFactory</code> class or a list of package prefixes used to construct URL context factory classnames. For more details on specifying a JNDI <code>InitialContextFactory</code> .
<code>-jfn <i>connectionFactoryName</i></code>	Specifies the JNDI name bound to the JMS connection factory to use when connecting to the JMS destination.
<code>-jdn <i>destinationName</i></code>	Specifies the JNDI name bound to the JMS destination to which Artix connects.

<code>-jmt <i>messageType</i></code>	Specifies how the message data will be packaged as a JMS message. Valid values are <code>text</code> or <code>binary</code> .
<code>-o <i>file</i></code>	Specifies the filename for the generated contract. The default is to append <code>-service</code> to the name of the imported contract.
<code>-d <i>dir</i></code>	Specifies the output directory for the generated contract.
<code>-L <i>file</i></code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-v</code>	Specifies that the tool runs in verbose mode.

Adding a Tibco Service

Overview

The Artix `wsdltoservice` tool can generate a Tibco service from an existing logical interface defined in a WSDL `portType` element.

WSDLTOSERVICE -transport tibrv

Synopsis

```
wsdltoservice -transport tibrv [-e service] [-t port] [-b binding] [-tss subject] [-tcst subject] [-tbt bindingType] [-tcl callbackLevel] [-trdt timeout] [-tts transportService] [-ttn transportNetwork] [-ttbm batchMode] [-tqp priority] [-tqlp queueLimitPolicy] [-tqme queueMaxEvents] [-tqda queueDiscardAmount] [-tcs cmSupport] [-tctsn cmTransportServerName] [-tctcn cmTransportClientName] [-tctro cmTransportRequestOld] [-tctlm cmTransportLedgerName] [-tctsl cmTransportSyncLedger] [-tctra cmTransportRelayAgent] [-tctdtl cmTransportDefaultTimeLimit] [-tclca cmListenerCancelAgreements] [-tcqtsn cmQueueTransportServerName] [-tcqtcn cmQueueTransportClientName] [-tcqtwm cmQueueTransportWorkerWeight] [-tcqtws cmQueueTransportWorkerTasks] [-tcqtsw cmQueueTransportSchedulerWeight] [-tcqtsh cmQueueTransportSchedulerHeartbeat] [-tcqtsta cmQueueTransportSchedulerActivation] [-tcqtct cmQueueTransportCompleteTime] [-tmnfv messageNameFieldValue] [-tmnfp messageNameFieldPath] [-tbfi bindingFieldId] [-tbfn bindingFieldName] [-o file] [-d dir] [-L file] [-q] [-h] [-V] wsdurl
```

Options

The command has the following options:

<code>-e service</code>	Specifies the name of the generated service.
<code>-t port</code>	Specifies the value of the <code>name</code> attribute of the generated <code>port</code> element.
<code>-b binding</code>	Specifies the name of the binding for which the service is generated.
<code>-tss subject</code>	Specifies the subject to which the server listens.

<code>-tbt <i>bindingType</i></code>	Specifies the message binding type. Valid values are <code>msg</code> , <code>xml</code> , <code>opaque</code> , or <code>string</code> .
<code>-tcl <i>callbackLevel</i></code>	Specifies the server-side callback level when TIB/RV system advisory messages are received. Valid values are <code>INFO</code> , <code>WARN</code> , or <code>ERROR</code> .
<code>-trdt <i>timeout</i></code>	Specifies the client-side response receive dispatch time-out.
<code>-tts <i>transportService</i></code>	Specifies the UDP service name or port for TibrvNetTransport.
<code>-ttn <i>transportNetwork</i></code>	Specifies the binding network addresses for TibrvNetTransport.
<code>-ttbm <i>batchMode</i></code>	Specifies if the TIB/RV transport uses batch mode to send messages. Valid values are <code>DEFAULT_BATCH</code> and <code>TIMER_BATCH</code> .
<code>-tqp <i>priority</i></code>	
<code>-tqlp <i>queueLimitPolicy</i></code>	Valid values are <code>DISCARD_NONE</code> , <code>DISCARD_NEW</code> , <code>DISCARD_FIRST</code> , or <code>DISCARD_LAST</code> .
<code>-tqme <i>queueMaxEvents</i></code>	
<code>-tqda <i>queueDiscardAmount</i></code>	
<code>-tcs <i>cmSupport</i></code>	Specifies if Certified Message Delivery support is enabled. Valid values are <code>true</code> or <code>false</code> .
<code>-tctsn <i>cmTransportServerName</i></code>	Specifies the server's TibrvCmTransport correspondent name.
<code>-tctcn <i>cmTransportClientName</i></code>	Specifies the client TibrvCmTransport correspondent name.
<code>-tctro <i>cmTransportRequestOld</i></code>	Specifies if the endpoint can request old messages on start-up. Valid values are <code>true</code> or <code>false</code> .
<code>-tctlm <i>cmTransportLedgerName</i></code>	Specifies the TibrvCmTransport ledger file.
<code>-tctsl <i>cmTransportSyncLedger</i></code>	Specifies if the endpoint uses a synchronous ledger. Valid values are <code>true</code> or <code>false</code> .

<code>-tcetra</code>	<code>cmTransportRelayAgent</code>	Specifies the endpoint's TibrvCmTransport relay agent.
<code>-tctdtl</code>	<code>cmTransportDefaultTimeLimit</code>	Specifies the default time limit for a Certified Message to be delivered.
<code>-tclca</code>	<code>cmListenerCancelAgreements</code>	Specifies if Certified Message agreements are canceled when the endpoint disconnects. Valid values are <code>true</code> or <code>false</code> .
<code>-tcqtsn</code>	<code>cmQueueTransportServerName</code>	Specifies the server's TibrvCmQueueTransport correspondent name.
<code>-tcqtcn</code>	<code>cmQueueTransportClientName</code>	Specifies the client's TibrvCmQueueTransport correspondent name.
<code>-tcqtw</code>	<code>cmQueueTransportWorkerWeight</code>	Specifies the endpoint's TibrvCmQueueTransport worker weight.
<code>-tcqtws</code>	<code>cmQueueTransportWorkerTasks</code>	Specifies the endpoint's TibrvCmQueueTransport worker tasks parameter.
<code>-tcqtsw</code>	<code>cmQueueTransportSchedulerWeight</code>	Specifies the TibrvCmQueueTransport scheduler weight parameter.
<code>-tcqtsh</code>	<code>cmQueueTransportSchedulerHeartbeat</code>	Specifies the endpoint's TibrvCmQueueTransport scheduler heartbeat parameter.
<code>-tcqtssa</code>	<code>cmQueueTransportSchedulerActivation</code>	Specifies the TibrvCmQueueTransport scheduler activation parameter.
<code>-tcqtct</code>	<code>cmQueueTransportCompleteTime</code>	Specifies the TibrvCmQueueTransport complete time parameter.
<code>-tmnfv</code>	<code>messageNameFieldValue</code>	
<code>-tmnfp</code>	<code>messageNameFieldPath</code>	
<code>-tbfi</code>	<code>bindingFieldId</code>	
<code>-tbfn</code>	<code>bindingFieldName</code>	

<code>-o file</code>	Specifies the filename for the generated contract. The default is to append <code>-service</code> to the name of the imported contract.
<code>-d dir</code>	Specifies the output directory for the generated contract.
<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-V</code>	Specifies that the tool runs in verbose mode.

Adding a Tuxedo Service

Overview

The Artix `wsdltoservice` tool can generate a Tuxedo service from an existing logical interface defined in a WSDL `portType` element.

WSDLTOSERVICE -transport tuxedo

Synopsis

```
wsdltoservice -transport tuxedo [-e service] [-t port] [-b
binding] [-tsn tuxService] [-tfn tuxService:tuxFunction] [-ton
tuxService:operation] [-o file] [-d dir] [-L file] [-q] [-h] [-V] wsdurl
```

Options

The command has the following options:

<code>-e service</code>	Specifies the name of the generated service.
<code>-t port</code>	Specifies the value of the <code>name</code> attribute of the generated <code>port</code> element.
<code>-b binding</code>	Specifies the name of the binding for which the service is generated.
<code>-tsn tuxService</code>	Specifies the name of the Tuxedo bulletin board to which Artix connects.
<code>-tsn tuxService:tuxFunction</code>	Specifies the name of the function to be used on the specified Tuxedo bulletin board.
<code>-ton tuxService:operation</code>	Specifies the WSDL operation that is handled by the specified Tuxedo endpoint.
<code>-o file</code>	Specifies the filename for the generated contract. The default is to append <code>-service</code> to the name of the imported contract.
<code>-d dir</code>	Specifies the output directory for the generated contract.
<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .

<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-v</code>	Specifies that the tool runs in verbose mode.

Adding Routes

You can add routes to your Artix contracts from the command line.

Overview

Artix includes a command line tool, `wsdltorouting`, for adding routes to Artix contracts.

WSDLTOROUTING

Synopsis

```
wsdltorouting [-rn name] [-ssn service] [-spn port] [-dsn
service] [-dpn port] [-on operation] [-ta attribute] [-d dir] [-o
file] [-?] [-v] [-verbose] [-L file] [-q] [-h] [-V] wsdurl
```

Options

You can supply the following optional parameters:

<code>-rn <i>name</i></code>	Specifies the name of the generated route. If no name is given a unique name will be generated for the route.
<code>-ssn <i>service</i></code>	Specifies the name of the service to use as the source of the route.
<code>-spn <i>port</i></code>	Specifies the name of the port to use as the source of the route. The port must correspond to a <code>port</code> element in the specified service.
<code>-dsn <i>service</i></code>	Specifies the name of the service to use as the destination of the route.
<code>-dpn <i>port</i></code>	Specifies the name of the port to use as the destination of the route. The port must correspond to a <code>port</code> element in the specified service.

<code>-on <i>operation</i></code>	Specifies the name of the operation to use for the route. If the route is port-based, you do not need to use this flag.
<code>-ta <i>attribute</i></code>	Specifies a transport attribute to use in defining the route. For details on how to specify the transport attributes.
<code>-d <i>dir</i></code>	Specifies the output directory for the generated contract.
<code>-o <i>file</i></code>	Specifies the filename of the generated contract.
<code>-?</code>	Displays the tool's usage statement.
<code>-v</code>	Displays the tool's version.
<code>-verbose</code>	Turns on verbose mode.
<code>-L <i>file</i></code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-V</code>	Specifies that the tool runs in verbose mode.

Validating WSDL

Artix can validate your contracts to see if they are well-formed WSDL documents. In addition, Artix can validate your contract against the WS-I Basic Profile.

Overview

Artix includes a command line tool, `schemavalidator`, for validating Artix contracts.

SCHEMAVALIDATOR

Synopsis

```
schemavalidator [-d schema-directory]* [-wd wSDL-directory] [-s
schema-url]* [-w WSDL_XSD_URL] [-deep] [-wsi] [-wh
wsi-test-tools.home] [-tad
BasicProfileAssertions] [-?] [-v] [-verbose] [-L file] [-q] [-h] [-V]
```

Parameters

You must specify the location of a WSDL contract file, `WSDL_XSD_URL`, for the schema validator to work.

Options

You can supply the following optional parameters:

<code>-d <i>schema-directory</i></code>	Specifies the directory used to search for schemas. This switch can appear multiple times.
<code>-wd <i>wSDL-directory</i></code>	Specifies the directory to look for the specified contract.
<code>-s <i>schema-url</i></code>	Specifies the URL of a user specific schema to be included in the validation of the contract. This switch can appear multiple times.

<code>-deep</code>	Specifies that the validator is to check all WSDL imports and all WSDL semantics. When using this switch, the tool will also validate the imported WSDL.
<code>-wsi</code>	Specifies that the tool is to use the wsi-test-tools from wsi.org to validate the contract.
<code>-wh <i>wsi-test-tools.home</i></code>	Specifies the base directory of wsi-test-tools.
<code>-tad <i>BasicProfileAssertions</i></code>	Specifies the URL of the of <code>BasicProfileTestAssertions.xml</code> used in wsi-test-tools.
<code>-?</code>	Displays detailed information about the tool's options.
<code>-v</code>	Displays the version of the tool.
<code>-verbose</code>	Displays detailed information on the tools progress as it is validating.
<code>-verbose</code>	Send extra diagnostic messages to the console while wsdltocpp is running.
<code>-L <i>file</i></code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-V</code>	Specifies that the tool runs in verbose mode.

Generating Code from WSDL

Artix generates stub and skeleton code that provides a developer with a simple model to develop transport-independent applications.

In this chapter

This chapter discusses the following topics:

C++ Code Generation	page 44
Java Code Generation	page 48

C++ Code Generation

Overview

Artix includes a command line tool, `wsdltocpp`, for generating Artix C++ skeletons for the services defined in an Artix contract. It can also generate starting point code for your server and client applications.

WSDLTOCPP

Synopsis

```
wsdltocpp [options] { WSDL-URL | SCHEMA-URL } [-e
web_service_name[:port_list]] [-b binding_name] [-i port_type]* [-d
output-dir] [-n URI=C++namespace]* [-nexclude URI[=C++namespace]]*
[-ninclude URI[=C++namespace]]* [-nimport C++namespace] [-impl] [-m
{NMAKE | UNIX}:[executable|library]] [-libv version] [-jpp
plugin_class] [-f] [-server] [-client] [-sample] [-plugin[:plugin_name
]] [-deployable] [-global] [-v] [-license] [-declspec declspec] [-all]
[-?][ -flags] [-upper|-lower|-minimal|-mapper
class] [-verbose] [-reflect] [-L file] [-q] [-h] [-V]
```

Parameters

You must specify the location of a valid WSDL contract file, *WSDL-URL*, for the code generator to work.

Options

You can supply the following optional parameters:

<code>-i port_type</code>	Specifies the name of the port type for which the tool will generate code. The default is to use the first port type listed in the contract. This switch can appear multiple times.
<code>-e web_service_name[:port_list]</code>	Specifies the name of the service for which the tool will generate code. The default is to use the first service listed in the contract. You can optionally specify a comma separated list of port names to activate. The default is to activate all of the service's ports.
<code>-b binding_name</code>	Specifies the name of the binding to use when generating code. The default is the first binding listed in the contract.
<code>-d output_dir</code>	Specifies the directory to which the generated code is written. The default is the current working directory.

- n `[URI=]C++namespace` Maps an XML namespace to a C++ namespace. The C++ stub code generated from the XML namespace, `URI`, is put into the specified C++ namespace, `C++namespace`. This switch can appear multiple times.
- nexclude `URI[=C++namespace]` Do not generate C++ stub code for the specified XML namespace, `URI`. You can optionally map the XML namespace, `URI`, to a C++ namespace, `C++namespace`, in case it is referenced by the rest of the XML schema/WSDL contract. This switch can appear multiple times.
- ninclude `URI[=C++namespace]` Generates C++ stub code for the specified XML namespace, `URI`. You can optionally map the XML namespace, `URI`, to a C++ namespace, `C++namespace`. This switch can appear multiple times.
- nimport `C++namespace` Specifies the C++ namespace to use for the code generated from imported schema.
- impl Generates the skeleton code for implementing the server defined by the contract.
- m {NMAKE | UNIX} `:[executable | library]` Used in combination with `-impl` to generate a makefile for the specified platform (NMAKE for Windows or UNIX for UNIX). You can specify that the generated makefile builds an executable, by appending `:executable`, or a library, by appending `:library`. For example, the options, `-impl -m NMAKE:executable`, would generate a Windows makefile to build an executable.
- libv `version` Used in combination with either `-m NAME:library` or `-m UNIX:library` to specify the version number of the library built by the makefile. This version number is for your own convenience, to help you keep track of your own library versions.
- f *Deprecated*—No longer used (was needed to support routing in earlier versions).
- server Generates code for a sample implementation of a server.
- client Generates code for a sample implementation of a client.

<code>-sample</code>	Generates code for a sample implementation of a client and a server (equivalent to <code>-server -client</code>).
<code>-plugin</code> <code>[:plugin_name]</code>	Generates servant registration code as a Bus plug-in. You can optionally specify the plug-in name by appending <code>:plugin_name</code> to this option. If no plug-in name is specified, the default name is <code><ServiceName><PortTypeName></code> . The service name, <code><ServiceName></code> , is specified by the <code>-e</code> option.
<code>-deployable</code>	(Used with <code>-plugin</code> .) Generates a deployment descriptor file, <code>deploy<ServiceName>.xml</code> , which is needed to deploy a plug-in into the Artix container.
<code>-global</code>	(Used with <code>-plugin</code> .) In the generated plug-in code, instantiate the plug-in using a <code>GlobalBusORBPlugIn</code> object instead of a <code>BusORBPlugIn</code> object. A <code>GlobalBusORBPlugIn</code> initializes the plug-in automatically, as soon as it is constructed (suitable approach for plug-ins that are linked directly with application code). A <code>BusORBPlugIn</code> is not initialized unless the plug-in is either listed in the <code>orb_plugins</code> list or deployed into an Artix container (suitable approach for dynamically loading plug-ins).
<code>-v</code>	Displays the version of the tool.
<code>-license</code>	Displays the currently available licenses.
<code>-declspec declspec</code>	Creates Visual C++ declaration specifiers for <code>dlexport</code> and <code>dllimport</code> . This option makes it easier to package Artix stubs in a DLL library.
<code>-all</code>	Generate stub code for all of the port types and the types that they use. This option is useful when multiple port types are defined in a WSDL contract.
<code>-?</code>	Displays help on using the command line tool.
<code>-flags</code>	Displays detailed information about the options.
<code>-verbose</code>	Send extra diagnostic messages to the console while <code>wsdltocpp</code> is running.
<code>-reflect</code>	Enables reflection on generated data classes.

<code>-wrapped</code>	When used with document/literal wrapped style, generates function signatures with wrapped parameters, instead of unwrapping into separate parameters.
<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-v</code>	Specifies that the tool runs in verbose mode.

Generated files

The code generator produces a number of stub files from the Artix contract. They are named according to the port type name, *PortTypeName*, specified in the logical portion of the Artix contract. If the contract specifies more than one port type, code will be generated for each one.

The following stub files are generated:

PortTypeName.h defines the superclass from which the client and server are implemented. It represents the API used by the service defined in the contract.

PortTypeNameService.h and *PortTypeNameService.cxx* are the server-side skeleton code to implement the service defined in the contract.

PortTypeNameClient.h and *PortTypeNameClient.cxx* are the client-side stubs for implementing a client to use the service defined by the contract.

PortTypeName_wsdlTypes.h and *PortTypeName_wsdlTypes.cxx* define the complex datatypes defined in the contract (if any).

PortTypeName_wsdlTypesFactory.h and *PortTypeName_wsdlTypesFactory.cxx* define factory classes for the complex datatypes defined in the contract (if any).

Java Code Generation

Overview

`wSDLtoJava` generates JAX-RPC compliant Java code stubs and skeletons for the services defined in the specified Artix contract. It can also generate starting point code for your server and client applications. The default behavior of `wSDLtoJava` is to generate all of the java code needed to develop a client and server.

WSDLTOJAVA

Synopsis

```
wSDLtoJava [-e service:port] [-b binding] [-i portType] [-d
output_dir] [-p
[namespace=]package] [-impl] [-server] [-client] [-plugin] [-servlet] [
-types] [-call] [-interface] [-sample] [-all] [-ant] [-datahandlers] [-m
erge] [-deployable] [-exclude namespace[=package]] [-ninclude
namespace[=package]] [-ser] [-L file] [-q] [-h] [-V] artix-contract
```

Description

You must specify the location of a valid Artix contract for the code generator to work. The default behavior of `wSDLtoJava` is to generate all of the java code needed to develop a client and server.

Options

You can supply the following optional parameters to control the portions of the code generated:

<code>-e service:port</code>	Specifies the name of the service, and optionally the port, for which the tool will generate code. The default is to use the first service listed in the contract. Specifying multiple services results in the generation of code for all the named service/port combinations. If no port is given, all ports defined in a service will be activated.
<code>-b binding</code>	Specifies the name of the binding to use when generating code. The default is to use the first binding listed in the contract.
<code>-i portType</code>	Specifies the name of a portType for which code will be generated. You can specify this flag for each portType for which you want code generated. The default is to use the first portType in the contract.

<code>-d <i>output_dir</i></code>	Specifies the directory to which the generated code is written. The default is the current working directory.
<code>-p [<i>namespace=</i>]<i>package</i></code>	Specifies the name of the Java package to use for the generated code. You can optionally map a WSDL namespace to a particular package name if your contract has more than one namespace.
<code>-impl</code>	Generates the skeleton class for implementing the server defined by the contract.
<code>-server</code>	Generates a simple main class for the server.
<code>-client</code>	Generates only the Java interface and code needed to implement the complex types defined by the contract. This flag is equivalent to specifying <code>-interface -types</code> .
<code>-plugin</code>	Generate a bus plug-in with the appropriate servant registration code for the generated service implementation.
<code>-servlet</code>	Generates a bus plug-in with the additional information needed to deploy it as a servlet.
<code>-types</code>	Generates the code to implement the complex types defined by the contract.
<code>-call</code>	Generates a sample client the uses the <code>Call</code> interface to invoke on the remote service.
<code>-interface</code>	Generates the Java interface for the service.
<code>-sample</code>	Generates a sample client that can be used to test your Java server.
<code>-all</code>	Generates code for all portTypes in the contract.
<code>-ant</code>	Generate an ant build target for the generated code.
<code>-datahandlers</code>	When a service uses SOAP w/ attachments as its payload format, generate code that uses <code>javax.activation.DataHandler</code> instead of the standard Java classes specified in the JAX-RPC specification.
<code>-merge</code>	Merge any user changes into the generated code.

<code>-deployable</code>	Generate a deployment descriptor to deploy the generated plug-in into an Artix container. For more information see Deploying and Managing Artix Solutions .
<code>-nexclude</code> <code>namespace [=package]</code>	Instructs the code generator to skip the specified XMLSchema namespace when generating code. You can optionally specify a package name to use for the types that are not generated.
<code>-ninclude</code> <code>namespace [=package]</code>	Instructs the code generator to generate code for the specified XMLSchema namespace. You can optionally specify a package name to use for the types in the specified namespace.
<code>-ser</code>	Specifies that the generated classes for the types defined in a contract should be serializable.
<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-v</code>	Specifies that the tool runs in verbose mode.

Generated files

The Artix code generator produces a number of files from the Artix contract. They are named according to the port name specified when the code was generated. The files include:

portTypeName.java defines the Java interface that both the client and server implement.

portTypeNameImpl.java defines the class used to implement the server.

portTypeNameServer.java is a simple main class for the server.

In addition to these files, the code generator also creates a class for each named schema type defined in the Artix contract. These files are named according to the type name they are given in the contract and contain the helper functions needed to use the data types. The naming convention for the helper type functions conforms to the JAX-RPC specification.

Generated type packages

The generated types are generated into a single package which must be imported for any methods using them. By default, the package name will be mapped from the target namespace of the schema describing the types. The default package name is created following the algorithm specified in the JAXB specification. The mapping algorithm follows four basic steps:

1. The leading `http://` or `urn://` are stripped off the namespace.
2. If the first string in the namespace is a valid internet domain, for example it ends in `.com` or `.gov`, the leading `www.` is stripped off the string, and the two remaining components are flipped.
3. If the final string in the namespace ends with a file extension of the pattern `.xxx` or `.xx`, the extension is stripped.
4. The remaining strings in the namespace are appended to the resulting string and separated by dots.
5. All letters are made lowercase.

For example, the XML namespace

`http://www.widgetVendor.com/types/widgetTypes.xsd` would be mapped to the Java package name `com.widgetvendor.types.widgettypes`.

Exceptions

If you generate code from a WSDL file that contains multiple portTypes, multiple bindings, multiple services, or multiple ports `wSDLtojava` will generate a warning message informing you that it is using the first instance of each to use for generating code. If you use the command line flags to specify which instances to use, the warning message is not displayed.

Tools for Generating Support Files

Artix provides a tools to generate a number of support files that can be used in conjunction with Artix solutions.

In this chapter

This chapter discusses the following topics:

Generating IDL from WSDL	page 54
Generating a Deployment Descriptor	page 56
Generating an ACL File	page 58

Generating IDL from WSDL

Overview

The `wsdltocorba` tool compiles Artix contracts containing a CORBA binding and generates IDL for the specified binding and port type.

WSDLTOCORBA

Synopsis

```
wsdltocorba -idl -b binding [-corba] [-i portType] [-d dir] [-o file]  
[-L file] [-q] [-h] [-V] wSDL_file
```

Parameters

The command has the following required parameters:

<code>-idl</code>	Instructs the tool to generate an IDL file from the specified binding.
<code>-b <i>binding</i></code>	Specifies the CORBA binding from which to generate IDL.
<code><i>wSDL_file</i></code>	Specifies the WSDL file to process.

Options

The command has the following options:

<code>-corba</code>	Instructs the tool to generate a CORBA binding for the specified port type.
<code>-i <i>portType</i></code>	Specifies the name of the port type being mapped to a CORBA binding.
<code>-d <i>dir</i></code>	Specifies the directory into which the new WSDL file is written.
<code>-o <i>file</i></code>	Specifies the name of the generated WSDL file. Defaults to <code><i>wSDL_file</i>.idl</code> .
<code>-L <i>file</i></code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .
<code>-q</code>	Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
<code>-h</code>	Specifies that the tool will display a usage message.
<code>-v</code>	Specifies that the tool runs in verbose mode.

Notes

By combining the `-idl` and `-corba` flags with `wsdltocorba`, you can generate a CORBA binding for a logical operation and then generate the IDL for the

generated CORBA binding. When doing so, you must also use the `-i portType` flag to specify the port type from which to generate the binding and the `-b binding` flag to specify the name of the binding to from which to generate the IDL.

Generating a Deployment Descriptor

Overview

The `wsgdd` tool generates a deployment descriptor that can be used to deploy and Artix plug-in into the Artix container.

WSDD**Synopsis**

```
wsgdd -service QName -pluginName name -pluginType {Cxx|Java}
[-pluginImpl name][-pluginDir dir][-wsdlurl URL][-provider
namespace][-file file][-d dir][-L file][-q][-h][-V]
```

Parameters

The command has the following required parameters:

`-service QName` Specifies the QName of the plug-in's service as given in its contract.

`-pluginName name` Specifies the name of the plug-in as specified in the Artix configuration file.

`-pluginType {Cxx|Java}` Specifies if the plug-in is implemented in C++ or Java.

Options

The command has the following options:

`-pluginImpl name` Specifies the library/class name of the plug-in's implementation.

`-pluginDir dir` Specifies the directory where the plug-in's implementation is located.

`-wsdlurl URL` Specifies the location of the contract defining the service implemented by the plug-in.

`-provider namespace` Specifies the namespace under which your plug-in's `ServantProvider` is registered with the bus.

`-file file` Specifies the name of the generated deployment descriptor.

`-d dir` Specifies the directory where the generated file will be written.

`-L file` Specifies the location of your Artix license file. The default behavior is to check `IT_PRODUCT_DIR\etc\license.txt`.

- q Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
- h Specifies that the tool will display a usage message.
- v Specifies that the tool runs in verbose mode.

Generating an ACL File

Overview

The `wSDLtoacl` tool generates an ACL file for the operation for which the default role name is not sufficient. It takes a WSDL file and generates an appropriate ACL file. You will need to add information specific to your deployment to this file.

WSDLTOACL

Synopsis

```
wSDLtoacl -s server WSDL-URL [-i interface] [-r default_role] [-d
output_dir] [-o output_file] [-props props_file] [-v] [-?] [-L
file] [-q] [-h] [-V]
```

Parameters

The command has the following required parameters:

<code>-s server</code>	Specifies the name of the server. Typically this is the ORB name of the server.
<code>WSDL-URL</code>	Specifies the name of the WSDL file from which the ACL file is generated.

Options

The command has the following options:

<code>-i interface</code>	Specifies the <code><portType></code> for which ACL data will be generated. The default is to generate information for all port types defined in the contract.
<code>-r default_role</code>	Specifies the role name to use in the generated ACL document. The default is <code>IONAUserRole</code> .
<code>-d output_dir</code>	Specifies the directory where the generated file will be written.
<code>-o output_file</code>	Specifies the name of the generated ACL file. The default is to use the name of the WSDL file with a <code>.acl</code> extension.
<code>-props props_file</code>	Specifies the properties file listing the roles for each operation.
<code>-L file</code>	Specifies the location of your Artix license file. The default behavior is to check <code>IT_PRODUCT_DIR\etc\license.txt</code> .

- q Specifies that the tool runs in quiet mode. No output will be shown on the console. This includes error messages.
- h Specifies that the tool will display a usage message.
- v Specifies that the tool runs in verbose mode.

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