

PROGRESS[®]
ARTIX[™]

Artix 5.6 Release Notes

Version 5.6, August 2011

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Third Party Acknowledgments — See the Third Party Acknowledgments section on page 40.

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Java-only release

Artix 5.6 marks the first release of Artix which contains only pure Java components. For Artix Java developers this means that installation is much smaller installation foot print and a simpler installation directory structure. In addition the installation process is simplified by reducing installation options.

Supported Specifications

JSR Specifications

- [JAX-WS - Java API for XML-Based WebServices 2.1/2.2 - JSR-224](#)

- JAXB Java™ Architecture for XML Binding 2.1/2.2 -JSR 222
- Web Services Metadata for the Java Platform - JSR-181
- JAX-RS 1.1 - The Java API for RESTful Web Services - JSR-311
- SAAJ - SOAP with Attachments API for Java (SAAJ) - JSR-67

Messaging

- SOAP 1.1, SOAP 1.2
- WS-Addressing
- Message Transmission Optimization Mechanism(MTOM) for SOAP 1.1/1.2
- SOAP over JMS 1.0

Web Services Interoperability

- Basic support: WS-I Basic Profile 1.1

Reliable Messaging

- WS-Reliable Messaging 1.0

Metadata

- WS-Policy
- WSDL 1.1 - Web Service Definition Language

Security

- WS-Security
- WS-SecurityPolicy
- WS-SecureConversation
- WS-Trust (partial support)

JDK support

Artix 5.5 does not support JDK 1.5. The JDK version must be greater than JDK 1.6 update 5.

JAX-WS 2.1/2.2 support

Artix 5.6 provides both JAX-WS 2.1(JAXB 2.1) and JAX-WS 2.2(JAXB 2.2) support. Out of the box, Artix 5.6 is configured to support JAX-WS 2.1(and JAXB 2.1).

Since JDK 1.6 includes support for JAX-WS 2.1(JAXB 2.1), if JAX-WS 2.2(JAXB 2.2) support is required, users must perform the following steps:

1. Copy the `jaxb-impl-2.2.1.1` and `jaxb-xjc-2.2.1.1` jar files from the `lib/cxf/jaws22` directory into the `lib/cxf` directory. These over-ride the existing `jaxb-impl-2.1.13` and `jaxb-xjc-2.1.13` jars as the 2.2.1.1 jars supercede the 2.1.13 jars in the `cxf-manifest` jar.
2. Copy the `geronimo-jaxws_2.2_spec-1.0` and `jaxb-api-2.2.1` jar files from the `lib/cxf/jaxws22/endorsed` directory to the `lib/cxf/endorsed`. For the Java 1.6 runtime to pick up these jars, users must set the following system property: `-Djava.endorsed.dirs=<ARTIX_INSTALL>/lib/cxf/endorsed`. Alternatively a users can simply copy the `geronimo-jaxws_2.2_spec-1.0` and `jaxb-api-2.2.1` jars to the `jre/lib/endorsed` directory of their JDK 1.6 installation.

New annotations for Java first use cases

The Artix 5.6 adds the following annotations:

- `@WSDLDocumentation` annotation to add documentation nodes to generated wsdl
- `@SchemaValidation` annotation to turn on schema validation
- `@DataBinding` to set the databinding used (if other than JAXB)
- `@GZIP` to turn on GZIP compression
- `@FastInfoset` to turn on FastInfoset support
- `@Logging` to turn on and control various Logging functionality
- `@EndpointProperty` to configure endpoint properties
- `@Policy` to associate WS-Policy documents with the service

API changes

As part of cleaning up the APIs and use of generics in the APIs, the `InterceptorProvider` API changed its methods from:

```
List<Interceptor> getOutInterceptors();
```

to

```
List<Interceptor<? extends Message>> getOutInterceptors();
```

While binary compatible (type erasure makes the raw signatures the same), it's not SOURCE compatible as you may need to update the types of variables used to hold the lists. Generally, just do the same change. Add `<? extends Message>` to the declaration of the `Interceptor`.

Runtime changes

Artix 5.6 has the following runtime changes:

- [mustUnderstand Headers](#)
- [SOAP/JMS Specification Support](#)
- [Provider<Source> and Dispatch<Source>](#)

mustUnderstand Headers

In Artix 5.5, SOAP headers with `mustUnderstand` set to true were checked after the endpoint finished processing the message. The `mustUnderstand` fault was raised if the endpoint did not process the headers.

Artix 5.6 checks for headers with `mustUnderstand` set to true prior to dispatching the message to the endpoint's application logic. If an endpoint expects SOAP headers with `mustUnderstand` set to true, it must be configured so the runtime allows them through. To do so, configure the endpoint's `endpoint-processes-headers` property. It can take either:

- a string with the `QName` of a SOAP header the endpoint can process
- a collection of strings representing the `QNames` of SOAP headers the endpoint can process

You can use the `@EndpointProperty` annotation listed in [“New annotations for Java first use cases” on page 7](#) to control this as well.

SOAP/JMS Specification Support

Artix now supports the w3c SOAP/JMS spec. Existing SOAP/JMS endpoints will continue working with Artix 5.6, but users should consider migrating in the near future in the event that support for the old style SOAP over JMS support is dropped.

Provider<Source> and Dispatch<Source>

The behavior of the Provider and Dispatch interfaces have changed when they are created with a generic Source type as shown below:

```
Dispatch<Source> dispatch = s.createDispatch(portName,  
                                           Source.class,  
                                           Service.Mode.PAYLOAD);
```

Artix 5.5 returned a DOMSource object. Artix 5.6 returns a streaming SAXSource object. You can either update your applications to accept the SAXSource object, or set the endpoint's source-preferred-format property to dom. There is a configuration property for the Endpoint of "source-preferred-format" which can be set as follows:

- "dom" — DOMSource
- "sax" — SAXSource (cxf StaxSource)
- "stream" — StreamSource
- "cxf.stax" — StaxSource
- "stax" — javax.xml.transform.stax.StAXSource

Supported components not shipped in Artix ESB 5.6

The following components no longer ship with Artix ESB 5.6:

- Artix Locator
The Artix Locator no longer ships with Artix, however, locator support for java clients and servers is still available as part of this release providing high-availability and fail-over support. To use these capabilities the Artix Locator from previous Artix releases must be used.
- Actional Interceptor for Artix ESB
Actional interceptors for Artix ESB are not shipped as part of Artix ESB 5.6. These interceptors are available as part of the Actional product line.

Features no longer supported in Artix ESB 5.6

The following features are no longer supported in Artix ESB 5.6:

- **OSGi** — Artix components can no longer be automatically deployed to an OSGi compliant container.
- **FTP Transport** — For FTP transport capabilities, users should use the Camel router or the CXF Camel transport.
- **DB Service**
- **Eclipse Designer** — Users must use the Artix Command Line tools for code generation, instead of using the Artix Designer. For more information, see the *Artix ESB Command Reference*.
- **Security Service** — The Artix Security Service responsible for authentication and authorization support no longer ships with Artix. Standard HTTPS security as well as message encryption using the WSS4j library is still available in Artix.

Bugs fixed in this release

[Table 1](#) lists the bugs fixed in this release.

Table 1: *Fixed bugs*

Bug number	Description
CXF-2916	Unmarshalling the JSON of a subclass fails when a field value is null
CXF-3117	Inappropriate use of naked RuntimeException
CXF-3171	http.proxyHost and http.proxyPort of System properties win when no proxy is required
CXF-3204	DynamicClientFactory.setupClasspath method cannot handle spaces in path
CXF-3265	Compilation error for schemas with types named as standard java classes
CXF-3407	Failure initializing ClassHelper
CXF-3408	Custom headers may get lost if CXF interceptors do not use MultivaluedMap

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-3410	org.apache.cxf.ws.policy.PolicyAnnotationListener throws NPE on endpoints with wsdlURL only (i.e. no serviceClass)
CXF-3411	JMSTransport: swallowed exception by provider send exchange
CXF-3412	ManagedEndpoint.getTransportId return endpoint address
CXF-3413	IndexOutOfBoundsException in DocLiteralInInterceptor
CXF-3428	Context closed twice with Spring setup
CXF-3429	ServerImpl should shutdown Destination before setMessageObserver=null
CXF-3430	XmlJavaTypeAdapter is not used correctly with explicit collections
CXF-3444	WSS4JInIntereptor does not always set the 'best' Principal as SecurityContext Principal
CXF-3446	InjectorUtils class goes to deep when it handles an enum value
CXF-3447	Error creating bean with name 'cxf': Requested bean is currently in creation: Is there an unresolvable circular reference?
CXF-3452	WS-Security Encrypted headers fail with JAX-WS Binding
CXF-3453	WS-Security signed headers fail when schema validation enabled
CXF-3456	WSA implementation does not throw wsa:InvalidCardinality exception when there is a greater than expected number of the specified header
CXF-3458	AddressingFeature required Client should throw exception when the wsa header is missing in the inbound message
CXF-3459	Subcode not managed by cxf client

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-3478	Endpoint address not resolved correctly when message exchange destination is not instance of AbstractHTTPDestination
CXF-3480	URIMappingInterceptor and ArrayIndexOutOfBoundsException Error
CXF-3486	CXF throws java.lang.UnsupportedOperationException when a OneWay webservice is invoked via HTTP
CXF-3489	JSON sequences created from explicit collections of unqualified beans can not be read
CXF-3490	WADL Generator does not show repeating request parameters
CXF-3491	Can't refer to java.lang.Exception in generated client/server main code
SF-339/ CXF-3442	SOAP fault for an invalid schema is incorrect when org.apache.cxf.ws.security.wss4j.WSS4JInInterceptor is used
SF-340/ CXF-3426	CXF JMSContinuation leaks threads
SF-342/ CXF-3427	JMSContinuation should be thread safe
CXF-3331	Schema validation breaks with multiple Instances of Java first JAX-WS service
CXF-3342	NullPointerException in Soap12FaultOutInterceptor when an exception is thrown from a SOAP 1.2 endpoint
CXF-3360	Repeated replace() function calls damage the performance
CXF-3376	Exception while sending array of byte (byte[])
CXF-3379	@Context fails to inject Application instance
CXF-3381	CXF-2841 resurfaced in 2.3.x

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-3383	byte[] mtom attachments unmarshal error
CXF-3396	InstrumentationManager not registering correctly in the standalone mode (i.e. when not using the framework's server)
CXF-3397	ServiceConstructionException: Could not resolve a binding for http://schemas.xmlsoap.org/wsdl/soap/
CXF-3398	JMX Naming issue - cannot register the mutil endpoints with same service bean
CXF-3400	Spring request-scoped beans can not have context and parameter properties injected
CXF-3401	soap.env.ns.map cannot be set on endpoint
CXF-3403	ServletController getBaseURL can not handle encoded URIs in some cases
CXF-3404	Encoded semicolons are not correctly handled by the JAX-RS runtime
CXF-3406	Handler scoped properties not restored into the context after application fault
CXF-3077	ava.lang.InstantiationException: org.apache.cxf.wstx_msv_validation.WoodstoxValidationImpl
CXF-3112	Further problem with cookies in Jax-RS (similar to closed issue 3035)
CXF-3226	Going to a JAX-RS resource that contains a space in the path returns a 404 response code
CXF-3230	CXF over JMS leaks JMS resources when no replay queue is specified
CXF-3253	LocalConduit with DirectDispatch does not work with interceptors that decorate the OutputStream
CXF-3257	ServiceImpl.getPort not returning ports created with addPort

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-3260	JAX-RS: org.apache.cxf.jaxrs.utils.Messages properties file missing definition for NO_CRI_MATCH
CXF-3266	CXF uses the incorrect namespace to refer to an Encrypted Key
CXF-3268	wsdl2java generated Service class has overloaded constructors with WebServiceFeature ... features parameter
CXF-3271	WS-RM code does not support InOrder assurances
CXF-3273	WS-RM ConcurrentModificationException from unsynchronized use of SequenceAcknowledgement
CXF-3274	JAX RS @FormParam error
CXF-3288	Multiple Client.getResponse() calls do not work
CXF-3290	wsdl2java fails to generate working client code if web service and portType have the same name
CXF-3292	MultipartProvider does not support reading Maps
CXF-3293	idl2wsdl tool fails if parameter refer an interface from other module in an included idl file
CXF-3294	idl2wsdl tool fails if inherit interface has oneway method
CXF-3295	idl2wsdl tool fails for some comment format
CXF-3296	wsdl2java tool should always use catalog to resolve the overwritten url firstly
CXF-3298	JAXRSUtils uses a split function to find name and value of the query and matrix params
CXF-3299	jaxws frontend should not reference http and local transports
CXF-3304	WebClient POST to a resource that returns 401 returns a blank InputStream when there's supposed to be text
CXF-3305	Request payload as StaxSource: first event is -1

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-3314	Separate loggers for LoggingInInterceptor and LoggingOutInterceptor
CXF-3326	Fixed the test error of simple frontend
CXF-3330	URITemplate does not escape literal '+' characters
CXF-3340	wSDL2Java caches the input WSDL file or result so there is no difference in the output when called a second time from the same process and with the same WSDL file path
CXF-3345	cxf-rt-core references spring-beans-2.5.xsd - breaks Spring 3 compatibility
CXF-3347	ws_security's ut and sign_enc samples define ConciseFormatter with the wrong package name
CXF-3349	NPE may be thrown in WS-RM scenarios at the server side when rebasing the response
CXF-3351	JAXBElementProvider ignores stream readers when creating JAXBElements
CXF-3353	can't refer to java.lang.Exception in generated fault code
CXF-3361	Configuring Log4jLogger requires SecurityPermission setContextClassLoader
CXF-3362	CXF Servlet doesn't support servlet async feature rightly
CXF-3364	No WSDL elements generated for Exception.class
CXF-3367	SOAPAction value not extracted in the inbound processing if the header name does not match exactly "SOAPAction"
SF-311/ CXF-3254	idl2wsdl fails to parse "if 0" directive in IDL
SF-315/ CXF-3264	idl2wsdl fails to progress "#pragma prefix" in IDL

Table 1: *Fixed bugs (Continued)*

Bug number	Description
SF-318/ CXF-3286	idl2wsdl fails with NPE when IDL keyword local is encountered
SF-320/ CXF-3280	idl2wsdl does not process multiple include directories -I <dir> correctly
SF-321/ CXF-3289	idl2wsdl fails if reference to interface is used inside the interface itself
SF-324/ CXF-3297	idl2wsdl fails with NPE if IDL contains typeprefix keyword
SF-325/ CXF-3303	idl2wsdl fails with NPE if a type cannot be resolved
SF-326/ CXF-3319	idl2wsdl defines XSD types multiple times in wsdl
SF-327/ CXF-3332	SourceDataBinding doesn't create a thread safe DataReader
SF-334/ CXF-3374	CXF Service Builder fails if the binding is imported from different file and has different target namespace than one imported into
CXF-2687	CLONE -WSDL Schema Imports - include schema location doesnt have full path
CXF-3092	WSDLDocumentation annotation not working on SEI implementation
CXF-3093	WSDLDocumentation annotation, Placement.BINDING not working
CXF-3135	WadlGenerator does not respect Consumes annotation for form requests
CXF-3188	The response code 500 and soapFault are produced for an one way operation when the soap understand headers can not be processed

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-3193	CachingXmlEventWriter.NSContext supports only one prefix for a namespace (backed by map)
CXF-3226	Going to a JAX-RS resource that contains a space in the path returns a 404 response code
CXF-3230	CXF over JMS leaks JMS resources when no replay queue is specified
CXF-3232	OneWayProcessorInterceptor throws fault on WebSphere
CXF-3233	JAXB xsd validation working on incoming messages but not outgoing messages
CXF-3234	JAXRSOutInterceptor can be confused about response Type when Response entity is overridden
CXF-3236	Add support for an Issued Token extracted from a SAML assertion
CXF-3241	JAXRSOutInterceptor should attempt to downcast CGLIB-enhanced types of response objects
CXF-3244	Policies for Fault messages are not being applied for unwrapped operations
CXF-3247	CXF JAX-RS does not recognize MessageBodyReader/MessageBodyWriter with no generic parameters
CXF-3248	CXF JAX-RS assumes custom Application returns providers only via Application.getSingletons
CXF-3249	When accessing a service that requires auth CXF returns: RuntimeException: Can't find input stream in message
CXF-3250	EPR's address is NOT used for invocations on the endpoint when the dispatchImpl is created with EPR
SF-309/ CXF-3238	idl2wsdl generates error: org.apache.cxf.tools.common.ToolException: For input string "NAME_LENGTH"

Table 1: Fixed bugs (Continued)

Bug number	Description
SF-310/ CXF-3239	idl2wsdl fails if const char is defined in IDL
SF-311/ CXF-3254	idl2wsdl fails to parse "if 0" directive in IDL
SF-312/ CXF-3252	org.apache.cxf.ws.addressing.ContextUtils.getAction should support namespace "http://www.w3.org/2005/08/addressing"
CXF-1924	Infinite loop in FileUtils.getDefaultTempDir() when "java.io.tmpdir" directory does not exist
CXF-2626	xmlbean databinding nullpointer
CXF-2697	REST and web methods taking arguments called without argument leads to IllegalArgumentException: wrong number of arguments exception
CXF-2770	There is no way to specify autoRewriteSoapAddress from a spring context file
CXF-2810	Wrong namespaces in WSDL - 2.2.6 OK, 2.2.7 and 2.2.8 BROKEN
CXF-3037	Policy references embedded in policy are not processed
CXF-3047	org.apache.cxf.interceptor.Fault: Unmarshalling Error: UndeclaredPrefix: Cannot resolve 's:string' as a QName: the prefix 's' is not declared
CXF-3180	Jaxrs/Jaxb unmarshaller code regularly causing performance problems & thread lock-up
CXF-3181	MAPCodec cancel the entire interceptor chain and throws exception when the server inboud message with RelatesTo header
CXF-3188	The response code 500 and soapFault are produced for an one way operation when the soap understand headers can not be processed
CXF-3196	Generated build.xml doesn't endorse the api jars

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-3197	NullPointerException in WrapperStyleNameCollisionValidator when generating stubs
CXF-3198	XMLBeansElementProvider doesn't support text/xml
CXF-3206	PolicyEngineImpl initializes bus interceptors twice
CXF-3214	CXFBusLifeCycleManager will call the preshutdown twice if when the BusApplicationContext is closed
CXF-3215	Error when a process method of a webservice is called by multiple client (thread) in the same time
CXF-3218	apparent regression introduced between 2.2.8 and 2.2.9: http://docs.oasis-open.org/ws-sx/ws-trust/200512/RST/SCT not supported
CXF-3220	java_first_jms server doesn't support to start the service with out using the jaxws API
CXF-3228	SOAPMessage does not recognize SOAPMessage.WRITE_XML_DECLARATION
CXF-3229	Generated Exception files should extend java.lang.Exception, not Exception
SF-305	FUSE Services Framework examples can be built with maven
CXF-2868	JAXB unmarshal error when the field of partTypeClass is javax.xml.datatype.XMLGregorianCalendar
CXF-2958	CXF JAXRS Proxies can not handle explicit collections of query and matrix parameters
CXF-3022	Integrating Spring 3 + GenericDAO (Don't repeat the DAO!) + CXF JAX-RS (JAXB Databinding) with a Generic Service Interface
CXF-3041	AsymmetricBinding used only for response causes error
CXF-3042	SymmetricBinding used only for request causes error

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-3061	Resolving a DTD from Schema fails when Endpoint definition uses wsdlLocation
CXF-3062	WS-A support does not enforce Message ID MAP for Req/Resp MEP
CXF-3095	Jax WS - Schema Locations are ignored since CXF-2851 was implemented
CXF-3096	Closing JMS endpoint always destroys SingleConnectionFactory
CXF-3100	HTTPConduit doesn't handle cookies when retransmitting in case of "401 Unauthorized" response
CXF-3105	jaxws customization parameter renaming not working
CXF-3110	jaxrs: ParameterizedTypeImpl cannot be cast to java.lang.Class
CXF-3112	Further problem with cookies in Jax-RS (similar to closed issue 3035)
CXF-3114	WS-RM's RMTxStore's does not recover stored sequences after restart
CXF-3122	Async Handler for dispatch client is called twice in case of bad response message
CXF-3128	@WebMethod(exclude=true) is not being honoured when generating WSDL
CXF-3130	Aegis fails when an ExceptionInInitializerError happens while introspecting
CXF-3132	Asynchronous client can't get correct error if non-runtimeexception happen
CXF-3136	context:annotation-config causes wsdl defined in jaxws:endpoint not to be found
CXF-3143	SOAPBindingUtil 'leaks' proxy classes

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-3147	FormParam parsing fails when no content-type is provided
CXF-3148	CXF converts collections to arrays during serialization
CXF-3149	WebClient getCollection() doesn't work with Jackson's JSON Provider because it passes the wrong types to readFrom()
CXF-3150	WebApplicationException and Response do not implement a useful toString()/getMessage() method
CXF-3151	Invalid WS-A ReplyTo constant value used by WS-RM
CXF-3159	JSONProvider has hard dependency on Jettison in Websphere
CXF-3166	URITemplate should skip empty or null values when assigning values to template variables
CXF-3168	Usage of whitespace in @Path regular expressions raises service deployment errors
CXF-3181	MAPCodec cancel the entire interceptor chain and throws exception when the server inboud message with RelatesTo header
SF-299/ CXF-3180	Jaxrs/Jaxb unmarshaller code regularly causing performance problems & thread lock-up
CXF-275	DestinationFactory and ConduitInitiator not registered for same namespaces
CXF-758	Support POST with empty bodies in http-centric Client API
CXF-1182	org.apache.cxf.bus.extension.DeferredMap::undefer causes all configuration to be lost when not using Spring
CXF-1356	Problem with unmarschalling parameters
CXF-1402	MTOM missing pieces
CXF-1471	HTTP GET support doesn't work with Aegis Databinding

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-1837	Goofy code until we see a fix from XmlSchema in SchemaCollection
CXF-1871	I tried to configure <jaxrs:serviceFactory> that ends in a java.lang.IndexOutOfBoundsException: Index: 0, Size: 0 during the jaxrs initialazion
CXF-1880	org.apache.cxf.xjc.ts.ToStringPlugin cannot be used with a 1.6 JVM
CXF-2008	JMS Transport: Invalid temporary destination when using Tibco ems and temporary reply queue
CXF-2202	Deploying REST service on CXF Transport for OSGi
CXF-2272	Only mime-type (not content-type) should be set on the message
CXF-2284	org.apache.cxf.BusException: No binding factory for namespace http://schemas.xmlsoap.org/wsdl/soap/ registered
CXF-2291	JAXRS Frontend Client API fails to handle javax.ws.rs.Response entities
CXF-2300	Generics not supported in response wrapper generation
CXF-2305	PerformanceCounter.Client reports incorrect response times for oneway invocations
CXF-2320	Problems using restful client api in ServiceMix JBI component
CXF-2322	Interceptors cannot make a copy of the returned input stream in JaxRS clients
CXF-2323	Jax RS clients don't support features
CXF-2326	@PathParam cannot be used by subresource if @Path("{...}") is declared by parent resource
CXF-2330	NullPointerException thrown in HTTPHeadersImpl.getListValues()

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-2332	Can't publish endpoint with XmlBeans databinding when build servicemodel from class
CXF-2345	Returning AOP/CGLIB proxy as Subresource throws Fault "object is not an instance of declaring class"
CXF-2346	CXF with Spring AOP-based Auth makes JAX-RS POST urlencode gives @FormParam=null
CXF-2355	Request URIs containing multiple matrix parameters in the last segment are not always matched
CXF-2360	soap.xsd in the soapbinding has the wrong elements
CXF-2362	AegisJSONProviderTest.testManyTags fails with the ibm jdk
CXF-2379	mustUnderstand headers should be processed before endpoint dispatch
CXF-2389	Patches for the client part of the jaxrs frontend
CXF-2390	Enums using fromString() but jaxb creates fromValue()
CXF-2392	wsdl2java generates the wrong package name from the namespace
CXF-2408	JAX-RS ClientProxy does not properly test consume types when setting request headers
CXF-2412	Aegis roots cannot be generics
CXF-2421	Get the UnsupportedOperationException when reinstalling a cxf related bundle in OSGi platform
CXF-2438	NPE creating dynamic client
CXF-2443	Dynamic client cannot be used if WSDL requires basic authentication
CXF-2462	CXF REST is not parsing the header value correctly if a comma is specified in a parameter value

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-2477	WSD2JS Not Creating Schema Objects
CXF-2487	SecureConversationTokenFinderInterceptor stores the wrong token identifier
CXF-2488	Mangled error message for JAX-RS missing writer
CXF-2490	Wrong content type for JAX-RS errors
CXF-2495	mvn clean does not work on trunk with an empty local maven repository
CXF-2498	Wrong parameter number exception with explicit soap headers
CXF-2503	ConcurrentModificationException thrown by AttachmentDeserializer
CXF-2514	Custom ContextResolver is not picked up for marshal/unmarshal calls for application/json and application/xml media types
CXF-2515	catalog.cat in some modules is incorrect
CXF-2525	Bug in TokenStoreCallbackHandler
CXF-2529	processCookieParam only returns last cookie
CXF-2533	Content disposition values don't have their quotes stripped
CXF-2540	JMX ResponseTimeFeature does not count client side exceptions
CXF-2541	JMX Per Operation ResponseTime not collected for JAX-RS services
CXF-2556	UnsupportedOperationException in WadlGenerator
CXF-2560	WebClient doesn't read response body if status code means some error
CXF-2579	Aegis reports duplicate tags for some complex types

Table 1: Fixed bugs (Continued)

Bug number	Description
CXF-2585	Already connected exception when using a proxy created with JAXRSCientFactory
CXF-2586	SOAP over JMS 1.0 support is broken
CXF-2622	ThreadLocal variables may not be cleared in case of exception
CXF-2650	Long schema truncated prior to validation
CXF-2652	UriInfo.getAbsolutePath throws "java.net.URISyntaxException: Illegal character in path" when there is an encoded space in the request URI
CXF-2675	Single quotes must be doubled in message formats (ie in Message.properties resource bundles)
CXF-2676	JMX InstanceAlreadyExistsException under high load initialization
CXF-2689	ClassLoader not GC'ed after undeploying the applications. Reference from SingleElementLeafProperty
CXF-2704	CXF JAX-RS "Content-Disposition" is lost for second multipart
CXF-2715	JAXRSOutInterceptor throws ClassCastException with ContentTypeOutInterceptor
CXF-2717	Some Content-Transfer-Encoding values are not supported for multipart
CXF-2724	Relative schema location import fails on Windows machines
CXF-2732	DocLiteralInInterceptor on unmarshal the first message part when using SourceDataBinding
CXF-2740	CXF does not unregister Endpoint MBeans for JAX-WS API published endpoints when endpoint is stopped through JAX-WS API

Table 1: Fixed bugs (Continued)

Bug number	Description
CXF-2747	BeanCreationException wrapped as warning during cxf-codegen:wSDL2java
CXF-2765	Schema location import fails if there is space in the file path
CXF-2780	Wrong soap fault code thrown on network connection failure
CXF-2781	Charset encoding other than UTF-8 (as ISO-8859-1) not working
CXF-2784	URIBuilder does not expand template variables in query parameters
CXF-2785	Base64Utils.decode should handle/wrap all exception types
CXF-2786	ws-rm Proxy should send SequenceAcknowledgement according to AcksTo URI header
CXF-2787	CXF Extension bit @QueryParam("") does not allow null values in the bean
CXF-2801	WebClient back() operation doesn't clear query parameters
CXF-2813	SOAP/JMS Spec implementation needs to implement Section 2.8 SOAP1.1 Fault details binding
CXF-2814	CXF's W3C SOAP JMS Implementation should generate mismatchedSoapAction per Section 2.2.3
CXF-2823	REST Client sending all lowercase post parameters
CXF-2825	Multipart Header not Handled Correctly
CXF-2846	JAXWS Provider endpoints do not work if either super classes implementing or interfaces extending Provider are used
CXF-2848	2.2.9 samples use 2.3.0-SNAPSHOT dependencies
CXF-2852	JavaToWS requires Spring
CXF-2857	MTOM: JAX-RS response missing XOP attachment

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-2869	Have JAXBElementProvider look for @XmlJavaTypeAdapter on the interfaces
CXF-2885	Wrong import package version for javax.servlet
CXF-2887	JAXRS NullPointerException given null argument
CXF-2888	[JAX-RS] URI template's final group is not correctly caught
CXF-2892	AttachmentSerializer outputs "xop+xml" as body content type even XOP is not enabled
CXF-2896	URIResolver should decode spaces before trying to resolve URI from filesystem
CXF-2902	Doc-lit, bare, multi part ("type" and not any) message gets rejected by DocLiteralInInterceptor
CXF-2903	Unexpected HTTP response code for @Consumes mismatch
CXF-2904	Request.selectVariant unimplemented
CXF-2906	WS-Addressing replay/message ID uniqueness enforcement does not handle clustering or restarts
CXF-2908	Using a Java enum type in a JAX-RS matrix parameter results in a StackOverflowError when generating the WADL
CXF-2909	WS-T / WS-SP sp:RequestSecurityTokenTemplate not using wst:SecondaryParameters
CXF-2910	Unable to use XmlSchema element as message part in WSDL
CXF-2911	HttpServletRequest.getScheme() returns null in one way webservice method
CXF-2912	EndpointPolicy is not ignoring empty Policies in its updatePolicy() method
CXF-2913	Cannot detect signature coverage of SOAP elements referenced through the Security Token Reference Dereference Transform

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-2914	Digest algorithm defined in WS-SecurityPolicy is not honored in WS-Security signature from client
CXF-2915	Client with WS-SecurityPolicy requiring an IssuedToken fails to include an issued SAML token in the WS-Security signature of the message
CXF-2918	URIParserUtil.getAbsoluteURL() does not return a nomalized url string
CXF-2921	PolicyBasedWSS4JInInterceptor not asserting TransportBinding assertion when no message layer security is added
CXF-2922	JAX-RS runtime configuration (Spring) warns with Spring 3.0.3
CXF-2927	Missing ConfiguredBeanLocator in bus created by org.apache.cxf.bus.CXFBusFactory
CXF-2938	Confluence doc has broken link, sort of
CXF-2949	CXF SOAP/JMS W3C Test Suite should be updated to reflect recent changes to testcases0002 and testcase1002
CXF-2950	CXF SOAP/JMS Implementation should update the SOAP/JMS Namespace per latest editorial copy
CXF-2951	CXF SOAP/JMS Implementation should revise SOAP1.1 fault binding per latest editorial copy
CXF-2953	CXF-2915 causes regression against Interopfest WS-Trust 1.0 scenarios 9 & 10
CXF-2957	xmlbean databinding should return the Document type class when codegen lookups the type from the QName of element
CXF-2961	JAXRS Web Client pre-connect errors can be better propagated

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-2963	Signature coverage of signed XML Encryption elements created using standard WSS4J elements cannot be verified with WS-SP configuration or the CryptoCoverageChecker
CXF-2965	WrapperClassInInterceptor should check for null wrapperClass
CXF-2968	PolicyBasedWSS4JInInterceptor asserting RequiredParts policy is destructive of SOAP Header DOM in SoapMessage
CXF-2969	StreamWriterContentHandler.getPrefix shouldn't return null if DEFAULT_NS_PREFIX is used
CXF-2972	MapAggregator should throw a fault when ReplyTo address is set to None in case of two-way requests
CXF-2975	ChainInitiationObserver lack synchronization which could causes continuations to malfunction for some rare scenario
CXF-2981	Outbound MapAggregator loses reference parameters of generic ReplyTo EPRs
CXF-2986	Sets null instead of empty List/Set/SortedSet when value isn't in query string
CXF-2990	Response Context should not be empty even with a SOAP fault message when use async invoke
CXF-2994	SoapBindingFactory should not break the backward compatible of the CXF JMSTransport configuration
CXF-2997	CXF JAX-RS not thread safe when accessing multiple destinations concurrently
CXF-2998	Unwrapped responses with 2 or more elements and -exsh throws exception on request
CXF-3001	NullPointerException when embedded into spring+jetty
CXF-3004	Inconsistent HTTP response code 202 returned for WS-RM piggybacked Ack response message

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-3006	Upgrade to Xml Schema 1.4.6
CXF-3022	Integrating Spring 3 + GenericDAO (Don't repeat the DAO!) + CXF JAX-RS (JAXB Databinding) with a Generic Service Interface
CXF-3024	Response temporaryRedirect() cannot handle query parameter correctly
CXF-3035	Missing Cookies Due to org.apache.cxf.jaxrs.client.AbstractClient#setResponseBuilder(HttpURLConnection, Exchange) line 341
CXF-3050	java.lang.NoClassDefFoundError using Maven 3 and org.apache.cxf:cxfr-java2ws-plugin:2.2.10:java2ws
CXF-3051	Rename all POM properties that change dependency versions
CXF-3056	Aegis handles MTOM fallback assymmetrically
CXF-3057	Only JAX-B sees @MTOM
CXF-3058	Aegis ignores MTOM threshold
CXF-3059	idl2wsdl fails when constant is used to define boundary of sequence.
CXF-3060	AddressingFeature(true, true) does not work in client side when the wsa policy is not enforced
CXF-3065	HTTPConduit does not respect HTTP 301 redirects responses to GET requests
CXF-3068	MimeBodyPartInputStream illegally returns "0" from a read call with chunked InputStream
CXF-3069	XmlElement(required=true) on @WebParam not honored in WSDL
CXF-3073	org/apache/cxf/transport/http/DigestAuthSupplier is not thread safe

Table 1: *Fixed bugs (Continued)*

Bug number	Description
CXF-3075	ConcurrentModificationException under load
CXF-3076	Add catalog to avoid download schema files remotely
CXF-3082	EndpointImpl.publish() with no address throws NPE for service list
CXF-3088	UriBuilderImpl#clone does not clone leadingSlash
CXF-3090	JAX-RS Trailing slashes required for first access
CXF-3091	WSDLQueryHandler does not support URL encoded WSDL requests from clients
CXF-3097	ws-rm ImmediateAcknowledgement doesn't work for ws-rm client side
CXF-3104	@Mtom and @MTOMFeature threshold configuration does not work
CXF-3106	JAXWS2.2: responses in @Addressing and @AddressingFeature does not work
CXF-3116	NPE in HolderInInterceptor
CXF-3122	Async Handler for dispatch client is called twice in case of bad response message
SF-258/ CXF-3097	WS-RM + WS-Security enabled via policies in the WSDL causes the server to send the response to the wrong endpoint on the client
SF-285/ CXF-2982	Don't throw the SuspendedInvocationException when call the suspend() method of CXF continuation

Improvements

Table 2 lists improvements implemented in this release.

Table 2: *Improvements*

Improvement number	Description
CXF-2716	Collection Support for JSONProvider
CXF-3207	Add JAX-RS Response MessageBodyReader
CXF-3224	WS-Trust: remove current wst:KeyType and wst:KeySize defaults
CXF-3392	Update FormEncodingProvider to support org.apache.cxf.jaxrs.ext.form.Form
CXF-3436	Javadoc fixes for o.a.c.jaxws.JaxWsServerFactoryBean
CXF-3443	Check XmlJavaTypeAdapters for all types of JAX-RS parameters
CXF-3445	Support the faultStackTraceEnabled option in Soap12FaultOutputInterceptor
CXF-3460	Update WebClient with methods allowing for replacing path and query values
CXF-3464	AutomaticWorkQueueImpl uses a DelayQueue to accept the tasks which is delayed
CXF-3468	Update WADLGenerator with properties allowing to set an application title, ignore forward path slashes and override the default ns prefix
CXF-3363	Use MessageFactory.newInstance(SOAPConstants.SOAP_1_1_PROTOCOL) instead of MessageFactory.newInstance()
CXF-3391	Provide a better support for extra JAXB classes and add more tests
SF-331/ CXF-3369	CXF doesn't support adding Jetty SecurityHandlers in Spring config

Table 2: *Improvements (Continued)*

Improvement number	Description
SF-333/ CXF-3385	Add option to cxf codegen plugin and wsdl2java to skip code generation for included schemas to have more flexibility
CXF-3021	Try to remove a wsdl4J dependency from the JAXRS frontend
CXF-3124	Accessing HTTPConduit in the CXF JAXRS client code requires the cxf-rt-transport-http-jetty dependency
CXF-3170	NullPointerException in StaxUtils.java:961
CXF-3207	Add JAX-RS Response MessageBodyReader
CXF-3261	JAX-RS: Performance improvement for JAXRSOutInterceptor.checkBufferingMode
CXF-3262	JAX-RS: Performance Improvement: Don't use IllegalArgumentException to determine if a URI chunk is a variable or literal
CXF-3285	JAX-RS: Avoid implicit use of regular expression in JAXRSUtils.intersectMimeTypes
CXF-3310	Cannot use <jaxws:client createdFromAPI=true> to configure proxies created with JaxWsProxyFactory
CXF-3311	Incremental generation for XMLBeans
CXF-3322	Introduce the extended SecurityContext interface
CXF-3324	JAXRSUtils: Avoid calling Message unless it'll be logged
CXF-3325	Logging interceptors should show the HTTP method
CXF-3327	PhaseInterceptorChain should warn user if the interceptor phase can't be found
CXF-3334	cxf-jms should support topicReplyToName option in the JMS URI
CXF-3348	[cxf-rt-ws-security] Fix for TokenType support

Table 2: *Improvements (Continued)*

Improvement number	Description
CXF-3373	Allow for providing classloader for bus extensions resolution
SF-316/ CXF-3359	Limiting the allowed number of child nodes in XML messages received by CXF
SF-317/ CXF-3277	Returning SOAP headers doesn't work with Faults
SF-319/ CXF-3279	Marking the imports of the CORABA package to be optional
SF-329/ CXF-3355	supports to configure the cxf osgi servlet init parameter
SF-330/ CXF-3378	Need to upgrade Jetty version to 7.3.1
SF-331/ XF-3369	CXF doesn't support adding Jetty SecurityHandlers in Spring config
CXF-3079	Javadoc refinements are necessary as exposed by the CXF build process (mvn -e)
CXF-3080	Reactor Summary in build process has alignment issues
CXF-3165	SUN_TOOL_PATH references legacy vendor
CXF-3242	Improve the way primitive request or response types are shown in WADL
CXF-622	HTTPClientPolicy CacheControl type should accept parameters for some directives
CXF-2269	Minimize CXF JAX-RS bundle
CXF-3085	non-varargs related warning in CXF 2.3 build
CXF-3154	Add extraClass property to JAXBElementProvider in order to avoid @XmlSeeAlso annotations
CXF-3174	Support gzip encoding compliant with Soap over JMS spec

Table 2: *Improvements (Continued)*

Improvement number	Description
CXF-3187	Update to latest Jetty version 7.2.2 from 7.2.1
CXF-3207	Add JAX-RS Response MessageBodyReader
CXF-3209	Service is builtFromWSDL twice
CXF-3231	wsdl2java should check wsa action if soap:body is overloaded
SF-302/ CXF-3213	BusApplicationListener should listen to the parent context events of the BusApplicationContext
SF-304/ CXF-3223	Add a threshold property for staxutils to avoid parsing message with unreasonable inner element level
CXF-3127	HttpConduit should not report IO exceptions in case of JAX-RS requests returning errors
CXF-3133	Refactoring JAXRSInvoker to support CXF continuation better
CXF-3152	Add support for processing a PKI Certificate Chain
CXF-3176	Update to latest Jetty version 7.2.1 from 7.2.0
CXF-730	Support Lazy-Init'ed Bus Extensions
CXF-909	Support SOAP/JMS Binding standard proposal
CXF-1090	SpringBeanMap class modification for better extensibility
CXF-1449	Implement facility to add extra documentation to generated WSDL
CXF-1695	Service listings for JAX-RS endpoints
CXF-2016	Add wildcard type signature to InterceptorProvider and implementations
CXF-2197	Support PerRequest resource classes registered from Spring

Table 2: *Improvements (Continued)*

Improvement number	Description
CXF-2268	Collapse Atom Feed and Entry providers and support Atom reflectively
CXF-2270	Attachments support in the RESTful client api
CXF-2280	Add OperationInfo extensors to generated WSDL
CXF-2299	should catch RejectedExecutionException in OneWayProcessorInterceptor and run the task in caller thread
CXF-2306	REST - WADL auto creation
CXF-2313	Enhance CXFNonSpringJaxrsServlet
CXF-2314	Wrap CXF DataBindings as JAX-RS MessageBody readers and writers
CXF-2350	JBIconduitOutputStream should copy properties between JBI NormalizedMessage and cxf message invocation context
CXF-2351	Allow jaxws tools output to be redirected to a given stream
CXF-2361	Adding JBIBindingConfigure to configure the JBIBinding from the spring configuration
CXF-2365	XSD produced by Aegis is different depending on what JVM is used to compile and run the application
CXF-2434	Set JMSSConfig's reconnectionOnException default value to be true
CXF-2460	Allow configuration of JaxWsClientFactoryBean during port creation
CXF-2482	Update JSON Provider to support Dojo JsonRestStore
CXF-2491	Add TLS cert constraints support
CXF-2532	On demand retrieval of JAX-WS MessageContext properties

Table 2: *Improvements (Continued)*

Improvement number	Description
CXF-2597	Add response code to LoggingFeature for REST/JAX-RS specific response codes
CXF-2610	Trim white spaces in logger class name
CXF-2639	Expose Cryptographic coverage checking code from PolicyBasedWSS4JInInterceptor in a non-WS-Policy based interceptor
CXF-2664	STSClient overloaded setPolicy causes issues with Spring based STS client configuration
CXF-2670	Filter to indicate to PersistOutInterceptor if an exchange should be persisted
CXF-2672	Enhance CXF client message in case of HttpRetryException (http codes 401 and 407)
CXF-2685	CXFBusFactory should provides a option which could disable the setDefaultBus action
CXF-2723	CLONE -Allow configuration of JaxWsClientFactoryBean during port creation
CXF-2753	Need a way to preserve parameters wrapper in DocLiteralInInterceptor
CXF-2754	Extend WS-Security component for higher level containers be able to use UsernameToken to authenticate a user and populate SecurityContext
CXF-2755	Add a utility AuthorizationInInterceptor which can check if current SecurityContext matches expected roles
CXF-2771	Jetty-HTTP Transport Jetty JMX support causes MBean name collisions
CXF-2790	ws-rm example server side configuration contain unnecessary DecoupledEndpoint configuration
CXF-2826	Should check for angular bracket "<>" when generating "start" tag for Content-Type for HTTP header

Table 2: *Improvements (Continued)*

Improvement number	Description
CXF-2837	Add null pointer check in SoapOutInterceptor
CXF-2860	Handle the soap fault inbound message in server side
CXF-2862	Provide an annotation to allow customisation of the elements declared in the request & response representation in the auto-generated wadl
CXF-2884	Client async invoke API should accept context and exchange parameters
CXF-2898	Support jetty version 7
CXF-2905	Support sending WS-A 1.4 ActAs in requests from STS client
CXF-2917	Have package naming more closely follow Appendix D.5.1 of JAXB 2.0/2.2 specification
CXF-2923	Logging {In Out} Interceptor should check the encoding before writing the log
CXF-2928	Add a configuration option that allows STSClient to use the requester's X509Certificate as the SubjectConfirmation KeyInfo data within RequestSecurityToken messages
CXF-2929	Allow programmatic initialisation of RMManager
CXF-2931	Add configurable pretty printing to the CXF logging in/out interceptors
CXF-2948	Allow <http:conduit/> to search in extensions of HTTPConduit
CXF-2959	XMLBeans - XmlBeansSchemaInitializer can't support http schema location
CXF-2967	Support the unwrapping of JAXB responses for Dispatch<Object>
CXF-2971	Avoid the NPE of AnnotationsFactoryBeanListener

Table 2: *Improvements (Continued)*

Improvement number	Description
CXF-2976	Allow to configure SSL session cache size and TTL on the client
CXF-2980	Specify spring import version for jbi binding to enable it works with spring 3.x in osgi container
CXF-2982	Don't throw the SuspendedInvocationException when call the suspend() method of CXF continuation
CXF-2984	Added getState() method into InterceptorChain
CXF-3007	WSDLServiceFactory should throw exception if the service factory cannot build the service with a wrong port name
CXF-3052	Provide an optional support for decoupled fault destinations in case of one way requests
CXF-3063	Make it possible to use WSSE tokens for authorization decisions without extending WSS4JInInterceptor
CXF-3067	Remove duplicate code for handling WS-SP AlgorithmSuite assertions
CXF-3108	Subclasses of RequestDispatcherProvider cannot add request parameters because RequestDispatcherProvider.HttpServletRequestFilter has private access

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