

PROGRESS[®] ARTIX[™]

Release Notes

Java edition, Version 5.6.2, November 2012

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Third Party Acknowledgments — See the Third Party Acknowledgments section on page 36.

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Supported Specifications

JSR Specifications

- [JAX-WS - Java API for XML-Based WebServices 2.1/2.2 - JSR-224](#)
- [JAXB JavaTM 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 Java 5.6.2 supports JDK 1.6 update 5 and later and JDK 1.7.

JAX-WS 2.1/2.2 support

Artix 5.6.2 provides both JAX-WS 2.1(JAXB 2.1) and JAX-WS 2.2(JAXB 2.2) support. Out of the box, Artix 5.6.2 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:

New annotations for Java first use cases

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 5.6.2 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 5.6.2 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 5.6.2 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 5.6.2, 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 5.6.2 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 5.6.2

The following components no longer ship with Artix ESB 5.6.2:

- 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 C++ releases must be used.

- Actional Interceptor for Artix ESB

Actional interceptors for Artix ESB are not shipped as part of Artix ESB 5.6.2. These interceptors are available as part of the Actional product line.

Features no longer supported in Artix ESB 5.6.2

The following features are no longer supported in Artix ESB 5.6.2:

- **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: *Bugs Fixed in Artix ESB 5.6.2*

Bug number	Description
CXF-2450	WSDL2java uses system encoding when generating java classes
CXF-2937	character encoding in cxf-codegen is wrong
CXF-3505	CXF attachment doesn't compatible with SUN's ACTIVATION library
CXF-3809	Tests failing with: The signature or decryption was invalid
CXF-3916	partial response problem with SOAP 1.1 use of WS-Addressing
CXF-4002	Cannot override read-only parameter: classesDirectory in goal: cxf-codegen:wSDL2java
CXF-4034	Allow SecurityConstants.SIGNATURE_CRYPTO and ENCRYPT_CRYPTO to be used on processing side

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-4052	Crypto cache issues and the PolicyBasedWSS4JInInterceptor used as a singleton
CXF-4088	Class.getGenericSuperclass also needs to be checked by ProviderFactory
CXF-4095	schemaLocation attribute for swaRef namespace "http://ws-i.org/profiles/basic/1.1/xsd" is wrongly removed
CXF-4105	Slf4jLogger doesn't mapping the level as the SLF4JBridgeHandler does
CXF-4110	Java first @Policy annotations aren't working
CXF-4115	The operation property of the MessageContext may return wrong value if erroneous request is sent
CXF-4117	Argument type mismatch when using Implicit Headers and @RequestWrapper with Service from WSDL
CXF-4118	org.apache.cxf.tools.wadlto.jaxrs.JAXRSContainerTest.test ResourceWithEPR breaks when run offline
CXF-4121	Default WebApplicationException mapper dramatically increases the response time
CXF-4122	CXFRequestData should get chance to setEnableRevocation from message context When use WS-SecurityPolicy
CXF-4125	StackOverflowError when requesting WADL
CXF-4127	CXFServlet should be reinitialized on ContextRefreshedEvent
CXF-4128	Code Gen plugin fails silently when generated classes have name collisions
CXF-4129	DynamicClientFactory no longer works with JDK provided JAXB impl

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-4131	org.apache.cxf.transport.http.finalizeConfig() duplicate property listener and possible memory leak
CXF-4133	CachedOutputStream lost charsetName param
CXF-4136	Codegen plugin requires WSDL artifact to be listed in dependency tree
CXF-4141	response_code 500 ignored when set in JAXRSOutInterceptor.handleWriteException
CXF-4147	Wrong wsdl generated from impl class annotated with @SOAPBinding(parameterStyle = ParameterStyle.BARE)
CXF-4153	FIQL Parsers Beanspector, replaces "is", "set" and "get" in method names
CXF-4171	Static resource resolution not possible with CXFNonSpringJaxrsServlet
CXF-4172	Default JAX-RS XML, JSON and Form providers are open to the hash collision attacks
CXF-4177	ClientProxyImpl does not order Path parameter values according to the template order
CXF-4183	SOAP Fault cause NullPointerException
CXF-4191	RM broken in synchronous Mode
CXF-4192	WSDLValidator doesn't pass the test for WSI-BP-1.0 R2726
CXF-4200	UriInfoImpl.getPathSegments(decode) does not pass 'decode' flag to getPath()
CXF-4224	Custom HTTP methods (HttpMethod annot) not supported?
CXF-4226	@Description on class level not "inherited"
CXF-4227	AttachmentDeserializerTest contains buggy code for reading an InputStream.

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-4231	Incorrect handling of "If-None-Match" and "If-Modified-Since" request header combination
CXF-4238	Spring JAXRSClientFactoryBeanDefinitionParser reports a wrong factory bean class
CXF-4240	CXF WSN cannot run offline in Karaf
CXF-4243	RequestImpl.selectVariant() using wrong headers
CXF-4244	OutTransformWriter's defaultNamespace setting may not replace all default namespace declarations
CXF-4245	JAX-RS databinding support for JiBX
CXF-4250	WADL To Java Generator fails to process application level method elements
CXF-4258	Disabling WS-Policy feature fails
CXF-4259	JAX-RS Set-Cookie handler needs to ignore Expires property
CXF-4262	oauth sample in 2.5.3 release does not build without POM changes
CXF-4265	Potential NPE when Soap fault has no role
CXF-4267	A NPE in AttachmentDataSource could be guarded.
CXF-4268	WADL 2 Java doesn't respect catalogs
CXF-4269	In some cases, the javascript client will not output the ns declaration for wrapper element of an rpc/lit method
CXF-4271	net.sf.cglib import version range is wrong
CXF-4275	Sample readme file incorrect
CXF-4277	STSCClient does not use returned KeyInfo size when creating a secret key

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-4278	Karaf features.xml for CXF wants to load EhCache for cxf-sts-ws and cxf-ws-security
CXF-4279	WS-Security ehcache things never shutdown
CXF-4280	case insensitive MetadataMap keyset
CXF-4281	uribuilder from null?
CXF-4283	OAuth 2-leg getAccessToken Error
CXF-4284	Fix JAXB-based providers to report 400 for all read-related exceptions
CXF-4285	WADLGenerator ignores header or query parameters when FormParam parameters are available
CXF-4288	SecureAnnotationsInterceptor maps roles only based on method name
CXF-4292	Incorrect code generated with wadl2java tool when use JAXB binding and XML symple type with restriction.
CXF-4293	Some WS-RM scenarios may not run when there is no internet connection available
CXF-4294	Exception Cache ws-security.timestamp.cache.instance already exists or Cache ws-security.nonce.cache.instance already exists
CXF-4296	Setting a namespaceMap on JSONProvider does not affect the way JAXB generates prefixes
CXF-4297	WS-RM destination should update ack-ranges in RMStore before sending out acks
CXF-4298	MTOM-streaming regression: Worked 2.3.1, no longer works 2.6.0.
CXF-4300	feature cxf-core does not install on karaf 3 snapshot
CXF-4303	WS-RM fails when the GZIP feature is enabled

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-4305	FIQL only gives nullpointerexception. @Context SearchContext does not seem to work.
CXF-4306	Mixing up FormParam and Multipart annotations cause exceptions when some parts contain the binary payload
CXF-4307	The inbound Cookie header should be parsed using a semicolon separator by default
CXF-4310	WADLGenerator can not create QName when XMLRootElement has no name attribute and correctly manage schemas with empty namespaces
CXF-4312	JAX-WS clients set executor to a "thread per async request" version
SF-395/CXF-4085	org.apache.cxf.jaxws.checkPublishEndpointPermission does not take affect inside app server (websphere)
SF-403/CXF-4130	Server using Provider implementation writes contents of SOAP body in SOAP header
SF-405/CXF-4195	http-config conduit doesn't work on the http conduit for WsdUrl
CXF-2779	CXF ignores @XmlAttribute when serializing exceptions
CXF-2952	CXF/JAX-WS Server and CXF/JAX-WS Client with corba:sequence produces Unmarshalling Error: null
CXF-3159	JSONProvider has hard dependency on Jettison in Websphere
CXF-3453	WS-Security signed headers fail when schema validation enabled
CXF-3458	AddressingFeature required that Client should throw exception when the WS-A header is missing in the inbound message
CXF-3459	Subcode not managed by a CXF client

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3467	Minor issue when the 2.4.0 source is used with Eclipse 3.5.2: helloWorldSoapHttp is created all lowercase in the code, and the M2_REPO classpath variable is missing in Eclipse
CXF-3470	WildcardTypeImpl cannot be cast to java.lang.Class - Class Cast exception thrown after upgrading from 2.2.3 to 2.4.0
CXF-3472	Cannot override HTTPConduit's handleResponse() method
CXF-3477	NPE while unmarshalling attachments
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
CXF-3499	URIMappingInterceptor and ArrayIndexOutOfBoundsException
CXF-3501	DynamicClient fails to send an array of String
CXF-3502	IllegalArgumentException: wrong number of arguments with Dispatch/Provider service
CXF-3503	CXF should set the TCCL to the one of the service being invoked prior any invocation

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3504	When passing large attachments a temporary file is left on disk and kept open if the application just closes the DataSource's inputStream and doesn't consume it
CXF-3505	CXF attachments aren't compatible with SUN's ACTIVATION library
CXF-3507	Constructor injection is not working for JAX-RS Applications
CXF-3509	Unhelpful / misleading JAX-RS log message
CXF-3510	Wrong destination determination by OSGi based CXF entry point (regarding its fallback logic)
CXF-3518	WebClient doesn't handle responses containing a quoted-string in a header correctly
CXF-3525	JAXB provider can not read explicit collections of beans which have no @XmlRootElement
CXF-3526	Aegis cannot handle nested map inheritance
CXF-3527	NPE when interface contains generics
CXF-3528	TransformFeature can not be applied to outbound explicit collections
CXF-3530	Performing an OPTIONS on a JAX-RS subresource causes CXF to generate a 405 status instead of a 200 status
CXF-3531	CXF doesn't always generate 415 when posting to a resource with an invalid media type
CXF-3532	JMS set username/password mismatch
CXF-3539	NPE when sending packet to STS using default namespaces instead of namespace prefixes
CXF-3540	JAX-RS PrimitiveTextProvider ignores media type charset parameters on the input

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3541	XmlBeans Binding does not handle collections/array properly
CXF-3544	The nested policy reference can not be resolved
CXF-3545	LocalDestination with DirectDispatch does not work with interceptors that decorate the OutputStream
CXF-3548	EndPointImpl's hasCode value should not change when its mutable properties are changed
CXF-3555	Wrong log message logged by AbstractStaticFailoverStrategy
CXF-3558	JaxWsProxyFactoryBean.create is not thread-safe
CXF-3560	WS-A wrongly assumes that code using WS-A must be employing a request-reply exchange
CXF-3573	CXF JAX-RS can not handle encoded urls that contain a jsessionid
CXF-3576	Potential overflow for lifetime calculation in STSClient
CXF-3578	JAX-RS JAXB providers are missing XmlJavaTypeAdapter annotation in readFrom unless it is available in resource method annotations
CXF-3582	Reading attachments using the middle of large buffer results in corruption
CXF-3586	CXF JAX-RS clients ignore custom service QNames when creating the service model
CXF-3590	Exception when setPrettyLogging(true) for LoggingInInterceptor (or LoggingOutInterceptor)
CXF-3598	JAXBDataBinding swallows exceptions
CXF-3608	CXF JAX-RS selection algorithm always prefers resource methods to subresource locators

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3609	Oneway CXF service having problem with Gemini-Web€/Tomcat-ca€talina
CXF-3611	JAXBEncoderDecoder.marshallException fails if exception object contains a map
CXF-3614	Thread leak in WorkQueueManagerImpl and AutomaticWorkQueueImpl when we use it in tomcat
CXF-3618	Extremely bad performance in JMS transport when the MessageListenerContainer is used
CXF-3620	Chunking is not supported for non-empty HTTP PUT requests
CXF-3625	Recurrence of CXF-3229
CXF-3627	High load may cause deadlocks
CXF-3639	The duplicate SOAP body is appended when the endpoint is both configured with a SOAP handler and is wsse enabled
CXF-3641	CXF JAX-RS Proxies can not handle explicit collections of form parameters
CXF-3648	Wrong scope for commons-pool
CXF-3660	JAX-RS proxies should not append single slash path values
CXF-3675	DOMUtils Caching vs. ClassLoading problems
CXF-3679	CXFNonSpringJaxrsServlet can not register CXF in/out interceptors when Application is also registered
CXF-3684	CXF does not create a Holder for the headers
CXF-3689	path_info should not be contextPath + req.getPathInfo()
CXF-3695	Jetty startup is not threadsafe
CXF-3696	Race condition in BusFactory

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3697	The clientDestroyed() method of ClientLifeCycleListener impl is not being called when the service with jaxws:client is undeployed
CXF-3700	The stopServer() method in ServerLifeCycleListener is invoked twice when a service stopped
CXF-3703	Avoid overriding Content-Type in WebClient for GET requests
CXF-3707	CXF can not generate right schema information if a empty schema-location is passed into the ServerFactoryBean
CXF-3720	SOAP over JMS misses SOAPJMS_soapAction property when use soap12
CXF-3727	depends-on attribute not working on factory based beans
CXF-3729	TLSParameterJaxBUtills is unable to use keystores with empty file/url/resource.
CXF-3740	CXF WSA handler have to throw WebServiceException on client side if addressing is required but not found in the message
CXF-3747	Dispatch client fails to set WS-Addressing Action header when WSDL's soap:operation does not have a style attribute
CXF-3748	Using Dispatch API with SOAPMessage type fails to set WS-Addressing action header properly if there's whitespace after the soap:body
CXF-3749	Using Dispatch API with Source type fails to set WS-Addressing action header properly in MESSAGE mode with SOAP 1.2
CXF-3750	Sometimes, CXF servlet will blocked until bussiness logical finished for one-way operation

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3754	Dispatch API's ServiceImpl class fails to copy address/properties/bus/handlers from jaxws:client spring configuration
CXF-3755	setting wsa:addressing feature in cxf:bus causes wrong action header to be sent when using Dispatch API
CXF-3758	when web container be redeployed WebServiceContextImpl's static attribute ThreadLocal<MessageContext> may not be release successfully.
CXF-3760	Problematic inheritance of @Produces/@Consumes
CXF-3761	STSCClient can't process EncryptedKey elements received from an STS
CXF-3764	JARS does not respect encoding when reading application/x-www-form-urlencoded;charset=Iso-8859-1 parameters
CXF-3773	CXF unregisters MBeans for JAX-WS endpoints twice
CXF-3775	Cache-Control header provider won't emit the right values if multiple privateFields or noCacheFields are provided
CXF-3780	DynamicClientFactory trying to resolve wsdl URL prior to calling into service factories
CXF-3785	Calling start on a server that already is started resets things
CXF-3788	Allow CXF HTTP Client to handle HTTP 202 for twoway calls when the real response is sent back to the decoupled endpoint.
CXF-3789	org.apache.cxf.endpoint.ClientImpl.invoke(BindingOperationInfo, Object[], Exchange) wastes cycles
CXF-3790	org.apache.cxf.jaxws.interceptors WrapperClassInInterceptor.handleMessage(Message) contains cruft code

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3802	jaxws Provider doesn't allow override of outbound ws addressing headers
CXF-3821	FormEncodingProvider does not check for null incoming object
CXF-3822	JAX-RS: A 406 status could should be returned for an improperly formatted Accept header
CXF-3829	NPE in wsdl2java if soap:binding tag is omitted
CXF-3834	Array JAXRS parameters are not supported
CXF-3836	Missing output parameters in wrapped method implementations generate NPE
CXF-3840	WS-Addressing and WS-RM: Nested Reference Parameters in request are not supported and become concatenated in the response to client
CXF-3842	WS-Policy: Caused by: java.lang.IllegalArgumentException: local part cannot be "null" when creating a QName
CXF-3845	Incompatibility between Derby 10.8 and WS-RM RMTxStore
CXF-3846	NullPointerException when requesting ?wsdl using AegisDatabinding and @SchemaValidation
CXF-3847	ResponseBuilderImpl.status validation against instance var instead of parameter
CXF-3853	RMTxStore: Vendor specific condition check
CXF-3855	Incorrect character escaping by URIParserUtil
CXF-3867	Fix for CXF-1816 causes startup performance regression
CXF-3871	NPE is thrown when ws-addr is configured using policy and ws-addr Action is absent

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3878	org.apache.cxf.jaxrs.impl.WebApplicationExceptionHandler does not print the WebApplicationException stack trace even when log level is set to FINEST
CXF-3884	[JAXB] DynamicClientFactory#setupClasspath does not handle URL encoded file names correctly
CXF-3900	InjectionUtils do not handle correctly collections inside query bean
CXF-3905	The archetype is missing
CXF-3925	WebFaultOutInterceptor expects the Fault.
CXF-3934	JaxWsClientProxy clears stacktrace of custom exception
CXF-3939	UriInfo returns the list of matched uris and resources in the wrong order
CXF-3948	CXF 2.3.x does not configure the Future TTL value for Timestamp processing
CXF-3949	NoClassDefFoundError when using CXF JAX-RS in OSGi environment
CXF-3956	JAX-WS HandlerResolver consulted for ServiceImpl.createPort, but not for createDispatch
CXF-3961	SoapTransportFactory: confused exception by unknown transport protocol
CXF-3966	When client sends invalid XML, JAX-RS returns 500 instead of 4xx
CXF-3984	Impossible to handle Locale parameters with country qualifiers
CXF-3986	Update MessageContext.getContextualProperty to check Exchange if the property is of type Class
CXF-3991	Address information should be added to error message if conduit is not found

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-4006	Possible classloader leak due to ThreadLocal
CXF-4007	Jetty threading parameters doesn't setup threadpool properly
CXF-4018	JAX-WS Providers created from class (instead of an actual instance bean) do not get the JAXWSMethodInvoker
CXF-4027	Aegis BeanType does not ignore super type of java.lang.Enum
CXF-4031	NullPointerException Raised when input is nothing and using Holder to return response
CXF-4043	JSONProvider can not get a custom prefix set for a collection wrapper element
CXF-4044	ensure publishedEndpointUrl property could be set to endpoint
CXF-4045	BusFactory does not catch NoClassDefFoundError
CXF-4055	Parameter Handler not Invoked if Constructor or Static Methods Succeed
CXF-4056	Faults on server are echoing headers back to the client
CXF-4057	Echoed Addressing headers can cause client hangs and timeouts
CXF-4067	JAX-RS WebClient proxy sometimes fails to set Content-Type from @Consumes
CXF-4086	Providers.getContextResolvers is only partially implemented
CXF-3474	Pick up new version of Jetty, 7.4.1
CXF-3497	CXF should set the TCCL to the one of the service being invoked prior any invocation
CXF-3584	?wsdl does not rewrite soap:address for soap1.2 service

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3637	README.txt calls out incorrect parameter values in the mvn commands for the WSDL first demo using HTTPS
CXF-3784	incorrect OSGi metadata header for the jbi transport and binding
CXF-3054	wsdl12js scripts throw errors with the version flag and also no flags
CXF-3736	exceptionMessageCauseEnabled flag is not working correctly in some cases for sending cause back to client.
CXF-2779	CXF ignores @XmlAttribute when serializing exception
CXF-2952	Corba Use Case: CXF/JAX-WS Server and CXF/JAX-WS Client with corba:sequence produces Unmarshalling Error: null
CXF-3620	Chunking is not supported for non-empty HTTP PUT requests
CXF-3625	CXF-3229 all over again
CXF-3675	DOMUtils Caching vs. ClassLoading problems
CXF-3697	the clientDestroyed() of ClientLifecycleListener impl not be called when the service with jaxws:client undeployed
CXF-3700	the stopServer() method in ServerLifecycleListener has been invoked twice when a service stopped
CXF-3703	Avoid overriding Content-Type in WebClient for GET requests
CXF-3707	CXF can not generate right schema information if a empty schema-location is passed into the ServerFactoryBean
CXF-3720	SOAP over JMS miss SOAPJMS_soapAction property when use soap12
CXF-3727	depends-on attribute not working on factory based beans

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3729	TLSPParameterJaxBUtills is unable to use keystores with empty file/url/resource.
CXF-3740	CXF WSA handler have to throw WebServiceException on client side if addressing is required but not found in the message
CXF-3747	Dispatch client fails to set WS-Addressing Action header when WSDL's soap:operation does not have a style attribute
CXF-3748	Using Dispatch API with SOAPMessage type fails to set WS-Addressing action header properly if there's whitespace after the soap:body
CXF-3749	Using Dispatch API with Source type fails to set WS-Addressing action header properly in MESSAGE mode with SOAP 1.2
CXF-3750	Sometimes, CXF servlet will blocked until bussiness logical finished for one-way operation
CXF-3754	Dispatch API's ServiceImpl class fails to copy address/properties/bus/handlers from jaxws:client spring configuration
CXF-3755	setting wsa:addressing feature in cxf:bus causes wrong action header to be sent when using Dispatch API
CXF-3758	when web container be redeployed WebServiceContextImpl's static attribute ThreadLocal<MessageContext> may not be release successfully.
CXF-3760	Problematic inheritance of @Produces/@Consumes
CXF-3761	STSCient can't process EncryptedKey elements received from an STS
CXF-3764	JARS does not respect encoding when reading application/x-www-form-urlencoded;charset=Iso-8859-1 parameters

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3773	CXF unregisters MBeans for JAX-WS endpoints twice
CXF-3780	DynamicClientFactory trying to resolve wsdl URL prior to calling into service factories
CXF-3785	Calling start on a server that already is started resets things
CXF-3788	Allow CXF HTTP Client to handle HTTP 202 for twoway calls when the real response is sent back to the decoupled endpoint.
CXF-3789	org.apache.cxf.endpoint.ClientImpl.invoke(BindingOperationInfo, Object[], Exchange) wastes cycles
CXF-3790	org.apache.cxf.jaxws.interceptors WrapperClassInInterceptor.handleMessage(Message) contains cruft code
CXF-3784	incorrect OSGi metadata header for the jbi transport and binding
CXF-3159	JSONProvider has hard dependency on Jettison in Websphere
CXF-3639	The duplicate soap body is appended when the endpoint is both configured with soap handler and wsse enabled
CXF-3641	CXF JAXRS Proxies can not handle explicit collections of form parameters
CXF-3648	Wrong scope for commons-pool
CXF-3660	JAXRS proxies should not append single slash path values
CXF-3675	DOMUtils Caching vs. ClassLoading problems
CXF-3679	CXFNonSpringJaxrsServlet can not register CXF in/out interceptors when Application is also registered
CXF-3684	CXF does not create a Holder for the headers
CXF-3689	path_info should not be contextPath + req.getPathInfo()

Table 1: *Bugs Fixed in Artix ESB 5.6.2 (Continued)*

Bug number	Description
CXF-3695	Jetty startup is not threadsafe
CXF-3696	Race condition in BusFactory

Improvements

Table 2 lists improvements implemented in this release.

Table 2: *Improvements to Artix ESB in version 5.6.2*

Improvement number	Description
CXF-4049	Check external CryptoProvider from message context properties in Wss4jInInterceptor
CXF-4092	Confusing error message "No initiator token id" in AsymmetricBindingHandler
CXF-4119	support Certificates revocation check before encrypt when use CXF WS-SecurityPolicy
CXF-4120	JMS Transport content-type should be consistent with the HTTP transport
CXF-4134	GZIPOutInterceptor compiles Patterns constantly; they should be compiled once and reused
CXF-4143	Make class name of PolicyBasedWSS4JOutInterceptorInternal externally available
CXF-4145	Add the ability to restrict what algorithms were used for encryption/signature
CXF-4146	Add the ability to use the same Encryption/Signature algorithms as was received
CXF-4157	Support batch processing via RequestSecurityTokenCollection.
CXF-4158	Support the renewal binding in the STS
CXF-4176	preserve namespace prefixes in Transform Feature to support QName resolution for content
CXF-4180	LogUtils should default to CXF's Slf4jLogger if it can't find Log4J or JCL driver
CXF-4217	Introduce Nullable annotations to override the default handling of empty payloads by JAXB providers

Table 2: *Improvements to Artix ESB in version 5.6.2 (Continued)*

Improvement number	Description
CXF-4229	Make upgrading the WS-RM's RMTxStore's tables definitions easier
CXF-4230	Update Javadoc of GZIPFeature
CXF-4236	Changing Maven Name for CXF-Services from CXF Runtime to CXF Services
CXF-4246	replace asm:asm by a shaded jar
CXF-4249	Add to RMTxStore configuration options for schema name and datasource
CXF-4252	cxf:list-endpoints karaf command should also have a busid column
CXF-4256	Improve the optional generation of enum classes by WADL generator
CXF-4257	Should catch RejectedExecutionException in WS-Addr's rebaseReponse as done in OneWayProcessorInterceptor
CXF-4270	Store bus-id with the endpoint name in WS-RM's RMTxStore to correctly recover two endpoints with the same endpoint name
CXF-4274	Support useReqSigCert for encrypting the responses from JAX-RS endpoints
CXF-4276	Make WS-RM's default store instance RMTxStore to be shareable
CXF-4282	Make additional properties of WS-RM's RMTxStore configurable using spring and blueprint namespace handlers
CXF-4287	Modify -validate flag of wsdl2java to allow turning off all validation
CXF-4290	Allow user-specified classloader for JAXRSClientFactory

Table 2: *Improvements to Artix ESB in version 5.6.2 (Continued)*

Improvement number	Description
CXF-4304	Complete WSA support for STS client configuration via EPR
CXF-4308	Add option for disabling STS client WS-MEX invocation using WSA EPR address
CXF-2864	Support UsernameToken derived keys
CXF-3743	register extensions with CXFNonSpringJaxrsServlet
CXF-4084	Blueprint http
CXF-4112	Support for OAuth 2.0 Authorization Code Grant
CXF-4151	Support for OAuth 2.0 Client Credentials
CXF-4212	Support RBAC in JAX-WS WebServiceContext based on received SAML token
CXF-2053	wsdl2java should log reason for switching from wrapped to bare in verbose mode
CXF-3102	Update Apache CXF's main pom.xml file
CXF-3654	Non-informative exception thrown in JAXRSUtils
CXF-3686	Adjust sample project method calls that should be accessed in a static manner.
CXF-3694	Migrate to Jetty 7.4.5 from 7.4.4.
CXF-3714	Add property which can be used to get multiple HTTP header values added as separate headers
CXF-3736	Send the cause of exception stack trace
CXF-3752	Allow ability to reset values in ResponseTimeCounter via JMX
CXF-3737	Comments reference incorrect tool names in several files.
CXF-2053	wsdl2java should log reason for switching from wrapped to bare in verbose mode

Table 2: *Improvements to Artix ESB in version 5.6.2 (Continued)*

Improvement number	Description
CXF-2193	Allow for WRAPPED style code generation for "wrapper elements" with xsd:extension of a wrapper-compatible type
CXF-2313	Enhance CXFNonSpringJaxrsServlet
CXF-3102	Update Apache CXF's main pom.xml file
CXF-3182	wsdl:documentation should become javadoc in generated code
CXF-3380	JAX-RS: Support writing to DataSources
CXF-3483	JSONProvider: Don't force attributes to have @ if users doesn't want them too
CXF-3500	Make more packages optional in the CXF JAX-RS OSGI bundle to reduce runtime dependencies
CXF-3547	Enable http proxy support in the cxf-codegen-plugin for retrieval of WSDL files through the java.net.URL class
CXF-3551	Log warning message when cxf find the @WebServices which is loaded by the other classloader
CXF-3579	ParameterBeans can not be created using XmlJavaTypeAdapters
CXF-3580	Allow the dynamic client to unwrap operations using element references.
CXF-3600	add OBR resolver to karaf features descriptor
CXF-3629	mbean WorkQueueManager misses information about thread pool status
CXF-3634	Avoid risk of deadlock and speed up execution in JDKBugHacks.doHacks()
CXF-3643	Migrate to Jetty 7.4.3 from 7.4.2.
CXF-3654	Non-informative exception thrown in JAXRSUtils

Table 2: *Improvements to Artix ESB in version 5.6.2 (Continued)*

Improvement number	Description
CXF-3663	Migrate to Jetty 7.4.4 from 7.4.3.
CXF-3672	add a featurue to Soap11FaultOutInterceptor to custom http response status code
CXF-3680	Logging locations are hidden with Slf4jLogger
CXF-3682	CXF Example: java_first_jaxws, Warnings: Unused imports
CXF-3686	Adjust sample project method calls that should be accessed in a static manner.
CXF-3694	Migrate to Jetty 7.4.5 from 7.4.4.
CXF-3714	Add property which can be used to get multiple HTTP header values added as separate headers
CXF-3752	Allow ability to reset values in ResponseTimeCounter via JMX
CXF-3796	Introduce an header to disable the handling the PartialResponse when the response code is 202
CXF-3813	Possibility to only validate requests and/or responses
CXF-3814	update JDK download url in examples README.txt
CXF-3824	CLI tool -help should be able to list all switch in toolspec
CXF-3833	Add maxIdleTime attribute support on the engine element
CXF-3849	JAXBElementProvider prints Exception on System.err
CXF-3863	Warning info since build service from wsdl of JaxWsServiceFactoryBean once I located the wsdl location
CXF-3872	Confusing error message "Problem writing SAAJ model to stream" in case if service not available (patch)
CXF-3879	Add the ability to enforce a maximum attachment size

Table 2: *Improvements to Artix ESB in version 5.6.2 (Continued)*

Improvement number	Description
CXF-3887	wsdl2java only shows first error from JAXB/xjc
CXF-3921	Making RMTxStore's table exists error state/code configurable
CXF-3567	Using Timers in JMSContinuation is suboptimal
CXF-3572	Add a check of the message content list to avoid the OoM error from the HolderOutInterceptor
CXF-3690	Refactor packaging for uniformity across examples.
CXF-3125	Add -validate option to the following utilities: wsdl2xml, wsdl2soap, wsdl2service and wsdl2corba.
CXF-3055	Please make the Fuse Services Framework command line utilities consistent by adding version, -V and -Q switches
CXF-3245	Command line options are not uniform across CXF tools
CXF-3323	Add <description>'s to each individual pom.xml
CXF-3825	Please add a README file to etc directory
CXF-3858	It will be helpful to add the cause exception message, when throwing the fault from XMLStreamReader and XMLStreamWriter
CXF-2465	WSDL2Java should create Javadoc from wsdl:documentation tags
CXF-3743	register extensions with CXFNonSpringJaxrsServlet
CXF-3479	Provide better support for writing multipart/form-data data
CXF-3552	Upgrade to Jetty 7.4.2.
CXF-3559	Merge patch of CXF-3510 into ServletControl
CXF-3673	Make ResponseBuilder.tag produce consistent output with EntityTag and String parameters
CXF-3737	Comments reference incorrect tool names in several files.

Table 2: *Improvements to Artix ESB in version 5.6.2 (Continued)*

Improvement number	Description
CXF-3810	exclude ws_security/interopfest example from kit
CXF-3999	Update Jettison version to 1.3.1
CXF-3643	Migrate to Jetty 7.4.3 from 7.4.2.
CXF-3663	Migrate to Jetty 7.4.4 from 7.4.3.
CXF-3672	add a feature to Soap11FaultOutInterceptor to custom http response status code
CXF-3680	Logging locations are hidden with Slf4jLogger
CXF-3682	CXF Example: java_first_jaxws, Warnings: Unused imports
CXF-3673	Make ResponseBuilder.tag produce consistent output with EntityTag and String parameters

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