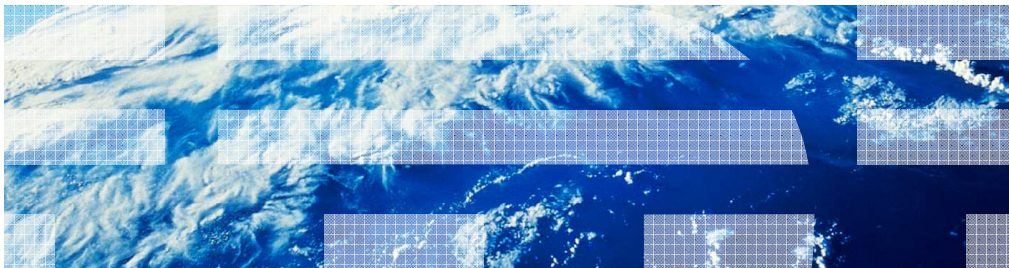


IBM WebSphere Application Server V8

XML feature version 1.0.0.7 updates



This presentation describes support for the XML feature included in IBM WebSphere Application Server Version 8.

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This presentation provides a brief overview of the functions provided by the XML feature of WebSphere Application Server 8.0, a summary of what's new in this release, and some links to useful reference material.

What is the XML feature?

- Originally introduced as **Feature Pack for XML**, for WebSphere Application Server V7
- Supports W3C Recommendations based on XQuery 1.0 and XPath 2.0 Data Model (XDM)
 - **XPath 2.0** (and 1.0 compatibility mode): a schema-aware, path-based language for retrieving information from an XML document
 - **XSLT 2.0** (and 1.0 compatibility mode): a schema-aware rule-based style sheet language for XML, using XPath-based pattern matching and data retrieval to construct one or more XML, HTML, or text output documents based on one or more XML input documents
 - **XQuery 1.0**: a query language which extends XPath 2.0 to add function definition and complex result construction. These optional XQuery features are supported:
 - **Full axis feature**
 - **Serialization feature**
 - Schema awareness (**Schema import feature, Schema validation feature**)
- Defines an XML application programming interface (XAPI)
 - for preparing, configuring, and invoking these operations

The XML feature is the successor to the Feature Pack For XML, which was introduced with WebSphere Application Server version seven. This feature provides support for a group of XML processing tools defined by the World Wide web Consortium. These are: XPath 2.0, XSLT 2.0, and XQuery 1.0 with its most important optional features.

The XML feature defines an application programming interface, or API, that can be used to prepare expressions and applications written in these languages for execution, to configure their execution environment, and to apply them to XML input documents. Since existing applications might have used the 1.0 versions of XPath and XSLT, the XML feature supports these as well, using the backward compatibility mode.

What is new in XML feature version 1.0.0.7?

- Most significant change: XML feature now ships with the base WebSphere Application Server V8 product
 - Previous releases, as “Feature Packs”, had to be explicitly installed
- Bug fixes
- Performance tuning
 - Results will vary depending on your specific use cases
- No new functionality this time
 - For feature description, see the IBM Education Assistant documents for **WebSphere Application Server Feature Pack for XML** releases 1.0.0.1 and 1.0.0.3

Version 1.0.0.7 of the XML feature is largely a maintenance release. Several bugs discovered in earlier versions of the Feature Pack have been fixed, and the evaluation speed of the tools has been improved. How much performance improvement you see will (of course) depend on exactly what features of these query languages you use and how your input data is structured.

Perhaps the most significant change is that the XML feature is now a part of the base WebSphere Application Server product, rather than a separately installed Feature Pack. This simplifies server configuration, and removes the risk that one server has the Feature Pack while another does not. If you have WebSphere Application Server V8, you have the XML feature.

Since no new functionality is delivered in this release, you can consult the IBM Education Assistant documents for previous releases of the Feature Pack For XML.

References

- Information center
<http://www.software.ibm.com/webapp/wsbroker/redirect?version=v700xml&product=was-nd-mp>
- IBM Education Assistant
<http://publib.boulder.ibm.com/infocenter/ieduasst/v1r1m0/index.jsp>
 - WebSphere Application Server V7 Feature Pack for XML:
http://publib.boulder.ibm.com/infocenter/ieduasst/v1r1m0/topic/com.ibm.iea.wasfpxml/plugin_coverpage.html
- Primary specifications
<http://www.w3.org/TR/xpath20/>
<http://www.w3.org/TR/xslt20/>
<http://www.w3.org/TR/xquery/>
<http://www.w3.org/TR/xml11/>

For more information about the use of the XML feature, and the W3C Recommendations it implements, see the documents referenced here.



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