

Product Description for SaxonJ-EEV (Enterprise Edition, Validation Package)



Version 13 released May 2026

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This document lists the features provided by SaxonJ 13 Enterprise Edition, Validation Package (Saxon-EEV) - a license that enables all the facilities of Saxon Professional Edition, plus XSD schema validation; it does not include Schema Aware XSLT or XQuery, for Java 17+.

This document does not form part of any contract unless expressly incorporated.

Language Support

1. XSLT (Transformation Processing)

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|--|---|
| 1.1 XSLT 3.0
Basic
Processor | Provides all mandatory features from the XSLT 3.0 specification (including try/catch, iterate, accumulators, maps, named modes, content value templates, and extended patterns, as well as features retained from XSLT 2.0). |
| 1.2 XSLT 3.0
Serialization | Provides the serialization feature: specifically, the ability to convert the result trees produced as output of an XSLT transformation to lexical XML, or other formats including HTML, JSON, and plain text, under the control of serialization parameters defined in the stylesheet or via an external API. |
| 1.3 XSLT 3.0
Compatibility | Provides XSLT 1.0 compatibility mode as defined in the XSLT 3.0 specification. If a stylesheet specifies <code>version="1.0"</code> , this causes certain constructs to behave in a way that retains the XSLT 1.0 behavior. |
| 1.4 XSLT 3.0
Dynamic
Evaluation | Provides use of the XSLT 3.0 instruction <code>xsl:evaluate</code> , which allows dynamic evaluation of XPath expressions. |
| 1.5 XSLT 3.0
XPath 3.1
Feature | <p>Provides full use of XPath 3.1 features, including XPath 3.1 functions, and maps and arrays.</p> <p>Note: Saxon supports XPath 3.1 unconditionally in XSLT 3.0 stylesheets, it does not offer a processing mode in which XPath is restricted to version 3.0.</p> |
| 1.6 XSLT 3.0
Higher-Order
Functions | Provides higher-order functions: specifically, the ability to use functions as values, including dynamic function calls, inline functions, partial function application, and the standard higher-order functions defined in the XPath 3.1 function library. |
| 1.7 XSLT 4.0
Extensions | Provides many features from the draft XSLT 4.0 specification. Generally, Saxonica aims to avoid making incompatible changes except in major releases. But since the 4.0 features are not yet entirely stable, this policy does not apply: the aim instead will be to respond rapidly to changes in |

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the developing specification. Maintenance releases in the 13.x series may therefore reflect changes in the draft specifications.

Optional features not provided: XSLT 3.0 Schema Awareness, XSLT 3.0 Streaming.

For more details see: [XSLT 3.0 conformance](#).

Relevant W3C Specification: [XSLT 3.0 Recommendation \(08 June 2017\)](#).

2. XPath

2.1 XPath 3.1 Basic

Provides all XPath 3.1 features which do not require schema-awareness or higher-order functions. This includes an implementation of maps and arrays, and support for JSON, as well as language constructs retained from earlier XPath versions.

2.2 XPath 3.1 Schema Aware

Provides schema-awareness: specifically, any use of source documents with type annotations, and any use of XPath expressions that contain the names of schema components such as element declarations and types, other than the built-in types.

2.3 XPath 3.1 Higher-Order Functions

Provides higher-order functions: specifically, the ability to use functions as values, including dynamic function calls, inline functions, partial function application, and a library of built-in higher-order functions.

2.4 XPath 4.0 Extensions

Provides many features from the draft XPath 4.0 specification. Generally, Saxonica aims to avoid making incompatible changes except in major releases. But since the 4.0 features are not yet entirely stable, this policy does not apply: the aim instead will be to respond rapidly to changes in the developing specification. Maintenance releases in the 13.x series may therefore reflect changes in the draft specifications.

For more details see: [XPath 3.1 conformance](#).

Relevant W3C Specification: [XPath 3.1 Recommendation \(21 March 2017\)](#).

3. XQuery

3.1 XQuery 3.1 Minimal Conformance

Provides Minimal Conformance (including try/catch and "group-by", as well as language features retained from earlier XQuery versions) as defined in section 5 of the XQuery 3.1 specification.

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3.2 XQuery 3.1 Modules	Provides the Module feature, which allows a query to be made up of multiple modules.
3.3 XQuery 3.1 Serialization	Provides the Serialization feature. This allows the output of a query to be serialized as lexical XML, or in other formats including HTML, JSON, and plain text, under the control of serialization parameters contained either in the query itself, or supplied externally.
3.4 XQuery 3.1 Higher-Order Functions	Provides the Higher-Order Function feature. This provides the ability to use functions as values, including dynamic function calls, inline functions, partial function application, and a library of built-in higher-order functions.
3.5 XQuery 4.0 Extensions	Provides many features from the draft XQuery 4.0 specification. Generally, Saxonica aims to avoid making incompatible changes except in major releases. But since the 4.0 features are not yet entirely stable, this policy does not apply: the aim instead will be to respond rapidly to changes in the developing specification. Maintenance releases in the 13.x series may therefore reflect changes in the draft specifications.

Optional features not provided: XQuery 3.1 Schema Aware, XQuery 3.1 Typed Data, XQuery 3.1 Static Typing, XQuery Update 1.0.

For more details see: [XQuery 3.1 conformance](#).

Relevant W3C Specification: [XQuery 3.1 Recommendation \(21 March 2017\)](#).

4. XSD (XML Schema Validation)

4.1 XML Schema 1.0 Validation	Saxon includes a complete implementation of XML Schema 1.0. This provides the ability to process XSD 1.0 schema documents and use them to validate instance documents. Note that Saxon does not expose the full PSVI, as required by the conformance rules in the XSD 1.0 Recommendation. Also includes Saxon extension functions to provide access to a compiled schema. From Saxon 10, the Saxon schema processor accepts XSD 1.1 syntax unconditionally. XSD 1.0 schemas are processed according to the rules of the XSD 1.1 specification. This offers a very high level of backwards compatibility, except in a few areas where the XSD 1.0 rules were unclear and have been clarified in the XSD 1.1 recommendation. For more details see: XML Schema 1.0 conformance.
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Relevant W3C Specification: [XML Schema 1.0 Recommendation \(28 October 2004\)](#).

4.2 XML Schema 1.1 Validation

Saxon includes a complete implementation of XML Schema 1.1. This provides the ability to process schema documents that use the new features of XSD 1.1, and use them to validate instance documents. More specifically, in the language of section 2.4 of the specification, it is a General-Purpose Web-Aware Validator. Also includes Saxon extension functions to provide access to a compiled schema.

For more details see: [XML Schema 1.1 conformance](#).

Relevant W3C Specification: [XML Schema 1.1 Recommendation \(05 April 2012\)](#).

Performance Features

5. Import stylesheet packages

Allows the importing of stylesheet packages in compiled form. Possible with all editions provided the package only uses features available in that edition. Note that this edition does not provide the ability to create compiled stylesheet packages.

For more details see: [Compiling a stylesheet](#).

6. Multi-threading (XPath)

Takes advantage of multi-core CPUs by providing automatic parallel execution of the `collection()` function.

7. Optimizer (Basic)

The Basic optimizer provided with all Saxon editions provides a wide range of static and dynamic optimizations including full pipelining of list operations, lazy evaluation of variables, elimination of redundant sorting operations, etc.

8. Reading W3C schemas and DTDs

The W3C web server routinely rejects requests for commonly-referenced files such as the DTD for XHTML, causing parsing failures. In response to this, Saxon now includes copies of these documents within the issued JAR/DLL file, and recognizes requests for these documents, satisfying the request using the local copy.

9. Streaming (XPath and XQuery)

Provides `saxon:stream()`, an extension function to allow large documents to be processed without holding the whole document in memory.

For more details see: [Streaming XML documents](#).

Extensibility

10. EXSLT extension functions

A selection of EXSLT extension functions are provided (in the modules Common, Dates and Times, Math, Random, and Sets), as listed in the documentation.

For more details see: [EXSLT extensions](#).

11. EXPath extension functions

A selection of EXPath extension functions are provided (in the modules Archive, Binary, and File), as listed in the documentation.

For more details see: [EXPath extensions](#).

12. Extensibility using custom classes

Ability to write extension functions (for use in XSLT, XQuery, or XPath) by implementing a Saxon-defined interface and registering the implementation with the Saxon Configuration.

For more details see: [Extensibility](#).

13. Extensibility using reflexion (Java)

Ability to access existing Java methods dynamically and invoke them as extension functions by means of dynamic loading and reflexion.

For more details see: [Extensibility](#).

14. Saxon extension functions (Advanced)

Extension functions, as listed in the documentation, in the Saxon namespace. The Advanced level includes those that depend on streaming or schema-awareness: `saxon:schema()`, `saxon:stream()`, and `saxon:validate()`.

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For more details see: [Saxon extension functions](#).

15. SQL extension

XSLT extension functions and instructions providing access to SQL databases.

For more details see: [Saxon SQL extension](#).

16. XSLT element extensibility

Ability to implement XSLT extension instructions by implementing a Saxon-defined interface and registering the implementation with the Saxon Configuration.

For more details see: [Writing XSLT extension instructions](#).

Localization

17. Formatting numbers and dates using ICU

Full support for formatting numbers and dates as words in different languages is provided using the [ICU4J library](#).

For more details see: [Numbers and dates from ICU](#).

18. Sorting and collations using ICU

Support for sorting and comparison of strings using the Unicode Collation Algorithm uses the collation facilities available from the [ICU4J library](#).

For more details see: [Unicode Collation Algorithm](#).

Interfaces and APIs

19. S9API API

SaxonJ's native interface for processing XSLT, XQuery, XPath, and (with Saxon-EE) XML Schema, on Java.

20. JAXP API

Implementations of the standard JAXP interfaces for XSLT transformation, XPath evaluation, and (with Saxon-EE) XML Schema validation.

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For more details see: [JAXP API conformance](#).

21. XQJ API

Implementations of the standard XQJ interfaces for XQuery processing. Note that the XQJ interfaces have been removed from the standard download of Saxon-HE because the Oracle specification license is not open source, but they are available on request.

For more details see: [XQJ API conformance](#).

22. Support for DOM

Ability to use a DOM (Document Object Model) for the input and output of transformations and queries.

For more details see: [Object models](#).

23. Optimized support for DOM

Indexing of a supplied DOM tree to provide fast navigation (the Domino Model).

For more details see: [Domino tree model](#).

24. Support for JDOM2, AXIOM, DOM4J, and XOM

Ability to use a JDOM2, AXIOM, DOM4J, and XOM for the input or output of transformations and queries. Note that the code for these interfaces is open source and can be compiled to work with Saxon-HE, but it does not come packaged with the Saxon-HE download.

For more details see: [Object models](#).