

XINS 2.1 features

101 new features of XINS 2.1.

This presentation has 102 pages

_xins-soap-map CC

- New calling convention
- Map request and response as done by the 'xins wsdl-to-api' command
- Useful for implementing an API according to a given WSDL.
- Can be extended in case the mapping doesn't match what is expected.
- Element attributes are mapped to sub elements.
- Namespaces are copied from the request.

ACL for calling convention

- Restrict request based on the calling convention used.
 - Force users to use a specific calling convention (for example for authentication).
 - Exclude one specific calling convention.

```
org.xins.server.acl=allow 127.0.0.1/24 *;\
deny 192.168.0.0/16 _ResetStatistics *;\
allow 192.168.0.0/16 *_xins-std;\
allow 192.168.0.25 SimpleTypes;\
allow 0.0.0.0/0 *_xins-soap
```

Javadoc for error codes

- Added Javadoc of the error code exception to the call method of the CAPI.

Ajax section in user guide

- Added new section in the user guide on how to integrate Ajax with XINS.

Ant section in user guide

- Added new section in user guide on how to integrate Ant with XINS.

Auto detection of WAR file

- Automatic detection of the location of the WAR file in the HTTPServletStarter when not passed as parameter.

Bug fixes

- Several bug fixes.
- The main ones are explained in this presentation.

Categories in OpenDocument

- Categories have been added in the generated OpenDocument format.

ChainedMap cloneable and serializable

- The ChainedMap class now implements Cloneable and Serializable.

Order kept of Element attributes

- Asking for the attributes of an XML Element will return them in the same order as they were added.
 - Use ChainedMap instead of HashMap

Session properties order

- The session properties are now listed in the same order as they were added.
- The `_inputs` session property will also return the input parameters in the same order as they were set.

Use of equals() instead of ==

- Changed in the generated Request.equals() method the way to compare two values from == to equals()

clean-<api> deletes WSDL

- The clean-<api name> target now also delete the generated WSDL file.

Color in OpenDocument

- Added more colors to the generated OpenDocument format:
 - The example query
 - The example result
 - The table headers

runtime props passed to test

- In the nbbuild.xml the location of the runtime properties file is passed to the test target

New default log pattern

- The new default logs pattern moved the NDC to just before the message
 - Easier to read the message ID
 - Easier to read the log level of the message

Dependencies in run and test

- The dependencies are added to the classpath of the run-`<api name>` and test-`<api name>`.
 - No need to unpack them with the `ServletClassLoader`
 - Faster start-up

Upgraded Docbook libs

- Upgraded libraries used to generate the documentation
 - FOP 0.94
 - XSLT DOC 1.73.2

Servlet filters

- Indicated in `api_to_webxml.xslt` where to add Servlet filters if needed.
- Servlet filters can be used for encryption, compression, authentication, auditing, ...

Dojo toolkit documentation

- Added a new section in the user guide on how to use the Dojo toolkit with XINS

JMX downloaded if needed

- The JMX library is automatically downloaded if the user tries to recompile the XINS distribution with Java 1.4.

Spring framework downloaded

- The Spring Framework library is downloaded if you want to rebuild the XINS from the release.

emma target

- New XINS command: emma.
- This command will produce the code coverage of the API code by the unit tests.
- This command is similar to the coverage command expect that the EMMA library is used instead of Cobertura.
- <http://emma.sourceforge.net>

Equals in CAPI requests

- Equals (and hashCode) has been overridden in AbstractCAPIRequest to that two requests with the same destination and the same parameters are consider equals().
- Useful if you want to build a client side cache for example.

Equals in XML Element

- Overridden equals() and hashCode() in Element so that two Elements are equal if they represent the same XML.

PropertyReader equals()

- If two PropertyReader contain the same keys and same values, they are considered equals.
 - hashCode() also overridden.

ESB + Java EE documentation

- Added new section in the user guide on how to integrate XINS with an ESB and/or a Java EE server.

Favicon for specdocs

- A favicon is copied for the specdocs
- Avoid 404 returned by browser asking for it.
- <http://en.wikipedia.org/wiki/Favicon>

Watch multiple files

- The FileWatcher has been extended to be able to watch multiple files.

dojo directory in release

- src/tools/dojo is added to the release (bug fix)

wSDL-to-API working

- Fixed templates not found in wSDL-to-API

Full description in OpenDocument

- Fixed description of functions, errors and parameters contain all the sentences of the description in the generated OpenDocument format
 - Used to be only the first sentence

Correct Locale in xins.properties

- In the demo directory, the runtime property used for the logdoc locale was incorrect. This is fixed.

SOAP CC with correct transformation

- Fixed incorrect transformation for soap elements in `_xins-soap` calling convention

One textarea for input data elements

- If you had more than one input data element, you had more than one text area displayed in the test form. This is fixed.

getWithDefault()

- New utility method
PropertiesReaderUtils#getWithDefault()
 - Gets the value of a PropertyReader or the provided fallback value if the null.

Shared error code in examples

- It is now possible to defined a shared error code in a function example.

Correct XML-RPC returned

- Correct XML-RPC is returned if there is an output data section.

New Fonts for OpenDocument

- Fonts in generated OpenDocument format have been improved
 - Less bold fonts
 - Courier New for literals

Correct element name from WSDL

- Generate API from WSDL uses the correct element name.
 - it used to use the type name

Smaller generated build.xml

- Much smaller
- Example:

Before	After
38850 lines	8811 lines
37,768 KB	18,784 KB

ParameterSpec#getDefault()

- New method in ParameterSpec to get the default value of the parameter or the attribute.

Type#getDescription()

- New method to get the description of a type.
 - Simple types returns the same text.
 - Defined types uses the description provided by the user.

Calling Convention names

- New methods in calling convention:
 - void setName(String)
 - String getName()

Glean target

- New target: "glean"
 - Execute the glean tool for an API.
 - Generate an editable glean.properties if needed.
 - <http://jbrugge.com/glean/>

GWT documentation

- Added section in the user guide on how to integrate the Google Web Toolkit with XINS.

Meta function GUI

- New graphical user interface to call the meta functions of an API.

Specification GUI

- New graphical user interface to look at the specification of the API.

New maintainer Lex Uijthof

- Changed maintainer from Anthony Goubard to Lex Uijthof.

Upgraded HttpClient

- The HttpClient library has been upgraded from 3.0.1 to 3.1.

HTTPFileWatcher

- New utility class that monitor URLs for changes.

No empty context sent

- If no context is available, the `_context` parameter is not sent.

No empty data section sent

- If no data section, the `_data` parameter is not sent.

No environment -> test form

- If no environment set, the test form is still generated and a text field is used for the target location.

Specdocs CSS improved

- Removed invalid element

XHTML of specdocs improved

- Better compliance with XHTML specifications.

Include of runtime properties

- It is possible to include other runtime properties from the main runtime properties file.
- `org.xins.server.config.include`
 - Can include more than one file (comma separated)
 - File locations are relative to the main runtime properties file.

java -jar <api name>.war

- Possibility to run the API with java -jar
 - The runtime properties location is given using -Dorg.xins.server.config=... (before -jar)
 - Defined the port number with -port=... (after the war file)
 - Also -help option
 - -loader=<class loader mode> option

javadoc-apis command

- New command 'xins javadoc-apis'
 - Generates the Javadoc for all APIs

javadoc-test-<api name>

- New command: 'xins javadoc-test-<api name>'
 - Generates the Javadoc of the unit tests

Larger tables in ODT

- The tables in the generated OpenDocument format are larger.
 - Useful for description which are more readable

Log4J upgraded

- Log4J upgraded from 1.2.14 to 1.2.15

Maven documentation

- Added new section in the user guide about the integration of XINS with Maven.

Meta description in specdocs

- The generated specdocs have meta description in the html header.
 - `<meta name="description" content="...">`

Improved NetBeans debug

- xins-server.jar and xins-common.jar classes have been added to the debug sources which allow to trace deeper if a problem occurs.

More error detection in build.xml

- Improved detection of possible specification errors when generating the build.xml file.
 - if the name of the function does not match the name of the file.
 - if properties are defined in impl.xml without `<bootstrap-properties>` or `<runtime-properties>`

More unit tests

- Added more unit tests.

Mule section in user guide

- Added new section in the user guide about the integration of XINS with the ESB mule.

Servlet container multi-threaded

- The internal Servlet container can accept now more than one request at the same time.
 - Each request has its own thread.

Namespace prefix support

- The `org.xins.common.xml.Element` also has namespace prefix support.
 - Used to be `ns0: ns1:`

NetBean project in CVS

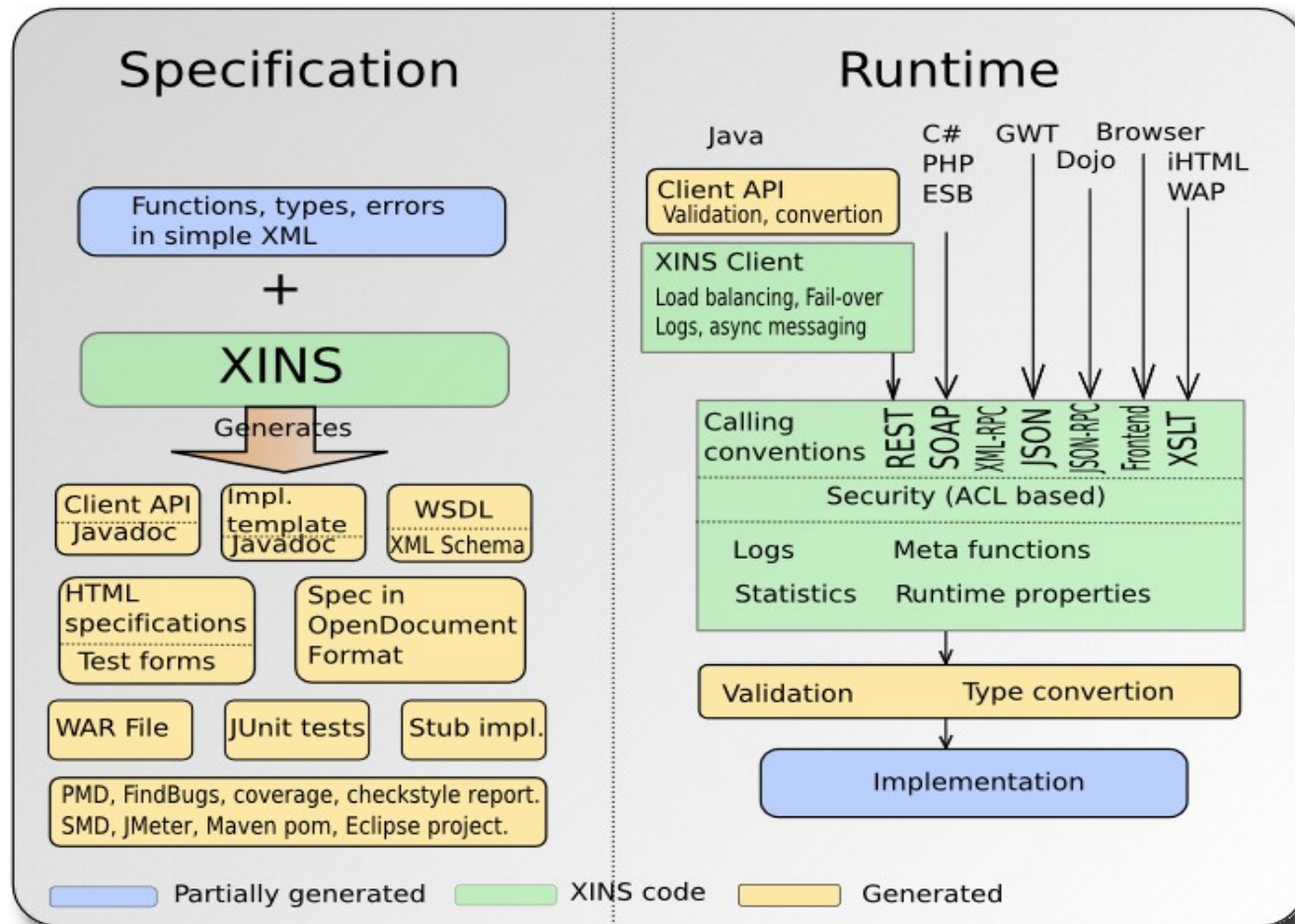
- NetBeans project files are added in CVS
 - Easier for users to apply modifications and try bug fixes.

New xslt-plus task

- New `<xslt-plus>` task that has a new option to never overwrite the destination file.
 - Make the generated build.xml smaller and with less targets

New XINS diagram

- New XINS explanation diagram in the frontpage.



Rename namespace

- Added possibility to change the namespace prefix and the namespace URI for an XML element.

Get all runtime properties

- Added new method to get all runtime properties in the generated RuntimeProperties class.

Regex test on type page

- If the type is a pattern type, it is now possible to test the regular expression directly in the specdoc page of the type.
 - Done in Javascript
 - Removed patterntest element in the xins-project.dtd

Regex user interface

- Graphical User interface for testing regular expressions
 - User javakarta-oro
 - Test also the validity of the regular expression
 - Validate as you type
 - `java -jar <api name>.war -port=-1 -gui; File -> Test regular expression`

`_errorResult` when needed

- Removed creation of `_errorResult` when the function has no input parameters and no input data section.
 - There cannot be any error then.
 - Reported by FindBugs

No parameter if `_text`

- Removed creation of the parameter when the type is `_text` and is optional in `checkOutputParameters()` as not used.
 - Reported by FindBugs

REST demo fixed

- Fixed compilation error of the REST API.

URL for runtime properties

- The `org.xins.server.config` properties now also accept URL to indicate the location of the runtime properties files.
 - Check for update using last-modified HTTP header
 - Support the `org.xins.server.config.include` property
 - Useful to share properties in a team.
 - Useful to provide the API to clients/testers.

Script languages section

- Added new section in the XINS user guide on how to integrate XINS with script languages.

Servlet container GUI

- Swing Graphical User Interface for the Servlet container.
 - Logs are in color depending on the log level
 - Possibility to clear the console, copy logs
 - `java [-Dorg.xins.server.config=...] -jar <api name>.war [-port=...] -gui`

SessionId -> SessionID

- The name of the cookie used to store the session id in the front-end framework has changed from SessionId to SessionID.

SimpleDateFormat synchronized

- All instances of SimpleDateFormat has been synchronized as the class is not thread safe.

index.html regeneration

- The index.html of the specdocs is regenerated when impl.xml changes.

Spring Framework doc.

- Added new section in the XINS user guide about the integration of XINS with the Spring Framework.

BeanUtils support for 'is'

- BeanUtils now takes into account the methods starting with 'is' or 'has' and returning a boolean.
 - Used to be only 'get' methods.

Support for `` in ODT

- Added support for the `` element of the descriptions in the generated OpenDocument format.

Test form GUI

- New Swing Graphical User Interface to query API functions with a generate test form.
 - `java -jar <api name>.war -port=-1 -gui;`
Test form -> function name.

check version

- The build directory is deleted if the version of XINS has changed between two build.

Class Loader xins detection

- The ServletClassLoader can detect the xins-common.jar using the XINS_HOME environment variable if needed.

This presentation

- This presentation

Transaction logs

- The transaction are logged at one place.

Log4j config for unit tests

- Unit test generated with default Log4J configuration.

Fixed package list for Javadoc

- Updated and fixed package-list used for Javadoc.

webstart target

- New 'xins webstart' command.
 - Does not sign the WAR file.
 - Dependencies and location of the runtime properties should be added.

XML-RPC fault

- XML-RPC returns a fault when an error occur instead of HTTP 400.

XMLViewer

- New class `org.xins.common.xml.Viewer`
 - XML viewer
 - Syntax highlight
 - Indentation if wanted
 - Show text if not XML

Filter logs

- Possibility to filter the logs based on a regular expression.
 - Only in the Servlet container UI (java -jar <api name>.war -gui)
 - Useful for finding errors or tracing request

Code checked

- XINS code have been checked with the latest version of PMD, FindBugs and Lint4J.