

# GT 4.2.0 Release Notes: Index Service

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<titleabbrev>Release Notes</titleabbrev>

## 1. Component Overview

The Index Service collects monitoring and discovery information from Grid resources, and publishes it in a single location; generally, it is expected that a virtual organization will deploy one or more index services which will collect data on all of the Grid resources available within that virtual organization.

## 2. Feature summary

Features new in release 4.2.0

- The Index Service now supports, in addition to queries made using the default XPath dialect, the new TargetedXPath dialect, which enables users to specify their own namespace mappings in queries.

## 3. Summary of Changes in WS MDS Index Service

Loop detection (preventing an index server from registering to itself, or two from registering to each other) has been improved somewhat since 4.0.x.

## 4. Bug Fixes

- Bug 3951: Service must release all of its resources on deactivation<sup>1</sup>
- Bug 2667: MDS index downstream registrations uses upstream config<sup>2</sup>
- Bug 2409: Index needing user proxy after TLS merge<sup>3</sup>

<sup>1</sup> [http://bugzilla.globus.org/bugzilla/show\\_bug.cgi?id=3951](http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=3951)

<sup>2</sup> [http://bugzilla.globus.org/globus/show\\_bug.cgi?id=2667](http://bugzilla.globus.org/globus/show_bug.cgi?id=2667)

<sup>3</sup> [http://bugzilla.globus.org/globus/show\\_bug.cgi?id=2409](http://bugzilla.globus.org/globus/show_bug.cgi?id=2409)

- [Bug 2131: default aggregator service entry EPRs point to the wrong service](#)<sup>4</sup>
- [Bug 2104: flatten schema](#)<sup>5</sup>
- [Bug 1885: Relative path to ganglia to glue.xslt in GangliaGLUE service](#)<sup>6</sup>
- [2141: fixable warn at index startup](#)<sup>7</sup>
- [2925: No deserializer for AggregatorContent](#)<sup>8</sup>
- [All fixed Index Service bugs and enhancement requests.](#)<sup>9</sup>

## 5. Known Problems

The following problems and limitations are known to exist for WS MDS Index Service at the time of the 4.2.0 release:

### 5.1. Limitations

- The WS-MDS Index Service currently keeps the entire set of index data in memory; the size of the index is thus limited by the amount of memory available to the Globus container.

### 5.2. Outstanding bugs

- [All open Index Service bugs and enhancement requests](#)<sup>10</sup>

## 6. Technology dependencies

The Index Service depends on the following GT components:

- [Java WS Core](#)
- [Aggregator Framework](#)

## 7. Tested platforms

Tested Platforms for WS-MDS Index Service:

- Linux on i386

<sup>4</sup> [http://bugzilla.globus.org/globus/show\\_bug.cgi?id=2131](http://bugzilla.globus.org/globus/show_bug.cgi?id=2131)

<sup>5</sup> [http://bugzilla.globus.org/globus/show\\_bug.cgi?id=2104](http://bugzilla.globus.org/globus/show_bug.cgi?id=2104)

<sup>6</sup> [http://bugzilla.globus.org/globus/show\\_bug.cgi?id=1885](http://bugzilla.globus.org/globus/show_bug.cgi?id=1885)

<sup>7</sup> [http://bugzilla.globus.org/globus/show\\_bug.cgi?id=2141](http://bugzilla.globus.org/globus/show_bug.cgi?id=2141)

<sup>8</sup> [http://bugzilla.globus.org/globus/show\\_bug.cgi?id=2925](http://bugzilla.globus.org/globus/show_bug.cgi?id=2925)

<sup>9</sup> [http://bugzilla.globus.org/globus/buglist.cgi?short\\_desc\\_type=allwordssubstr&short\\_desc=&product=MDS&component=wsrcf\\_index&long\\_desc\\_type=allwordssubstr&long\\_desc=&bug\\_file\\_loc\\_type=allwordssubstr&bug\\_file\\_loc=&bug\\_status=RESOLVED&bug\\_status=VERIFIED&bug\\_status=CLOSED&emailtype1=substring&email1=&emailtype2=substring&email2=&bugidtype=include&bug\\_id=&votes=&changedin=&chfieldfrom=&chfieldto=Now&chfieldvalue=&cmdtype=doit&newqueryname=&order=Reuse+same+sort+as+last+time&field0-0-0=noop&type0-0-0=noop&value0-0-0=](http://bugzilla.globus.org/globus/buglist.cgi?short_desc_type=allwordssubstr&short_desc=&product=MDS&component=wsrcf_index&long_desc_type=allwordssubstr&long_desc=&bug_file_loc_type=allwordssubstr&bug_file_loc=&bug_status=RESOLVED&bug_status=VERIFIED&bug_status=CLOSED&emailtype1=substring&email1=&emailtype2=substring&email2=&bugidtype=include&bug_id=&votes=&changedin=&chfieldfrom=&chfieldto=Now&chfieldvalue=&cmdtype=doit&newqueryname=&order=Reuse+same+sort+as+last+time&field0-0-0=noop&type0-0-0=noop&value0-0-0=)

<sup>10</sup> [http://bugzilla.globus.org/globus/buglist.cgi?short\\_desc\\_type=allwordssubstr&short\\_desc=&product=MDS&component=wsrcf\\_index&long\\_desc\\_type=allwordssubstr&long\\_desc=&bug\\_file\\_loc\\_type=allwordssubstr&bug\\_file\\_loc=&bug\\_status=NEW&bug\\_status=AS-SIGNED&bug\\_status=REOPENED&emailtype1=substring&email1=&emailtype2=substring&email2=&bugidtype=include&bug\\_id=&votes=&changedin=&chfieldfrom=&chfieldto=Now&chfieldvalue=&cmdtype=doit&newqueryname=&order=Reuse+same+sort+as+last+time&field0-0-0=noop&type0-0-0=noop&value0-0-0=](http://bugzilla.globus.org/globus/buglist.cgi?short_desc_type=allwordssubstr&short_desc=&product=MDS&component=wsrcf_index&long_desc_type=allwordssubstr&long_desc=&bug_file_loc_type=allwordssubstr&bug_file_loc=&bug_status=NEW&bug_status=AS-SIGNED&bug_status=REOPENED&emailtype1=substring&email1=&emailtype2=substring&email2=&bugidtype=include&bug_id=&votes=&changedin=&chfieldfrom=&chfieldto=Now&chfieldvalue=&cmdtype=doit&newqueryname=&order=Reuse+same+sort+as+last+time&field0-0-0=noop&type0-0-0=noop&value0-0-0=)

- Windows XP

Tested containers for WS-MDS Index Service:

- Java WS Core container
- Tomcat 5.0.28

## 8. Backward compatibility summary

Protocol changes since GT version 4.0.x

- Because of the Java WS Core protocol upgrades, this version is not compatible with Globus Toolkit 4.0.x services. See the [Java WS Core Release Notes](#) for more details.

API changes since GT version 4.0.x

- None.

Schema changes since GT version 4.0.x

- The Index Service is affected by the schema changes made as part of the Java WS Core protocol upgrades. See the [Java WS Core Release Notes](#) for more details.

## 9. Associated Standards

Associated standards for WS MDS Index:

- WS-ResourceProperties (WSRF-RP)
- WS-ResourceLifetime (WSRF-RL)
- WS-ServiceGroup (WSRF-SG)
- WS-BaseFaults (WSRF-BF)
- WS-BaseNotification
- WS-Topics

## 10. For More Information

See [Index Service](#) for more information about this component.

# Glossary