

GT 4.0 Pre-WS MDS (MDS2)

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Warning

The Pre-WS MDS2 component, MDS2, has been deprecated and is included for legacy purposes only. Please use the existing documentation for MDS2 [here](#)¹.



Warning

Please note that in the GT4 pre-WS build, MDS2 is not installed by default. This is because of security concerns with two third-party libraries, Open LDAP v.2.0.22 and Cyrus SASL (v. 1.5.27). That version of OpenLDAP has security vulnerabilities that are no longer being patched due to the age of the version (the current version is 2.2.25). This means that anyone who runs MDS2 on their server has a chance of being affected by this, although we have no reported cases of this occurring. A similar situation exists for the version of Cyrus SASL we are using although this can be avoided by not using MDS2 in secure-mode.

An unsupported, minimally-tested version of MDS2 based on more recent, more secure versions of OpenLDAP and Cyrus SASL is available for download [here](#)²; however, we strongly recommend that any MDS2 users upgrade their system to use the new WSRF-based MDS4, and we will be happy to work with you to make this possible for your project. Please note that in GT4, MDS2 is a deprecated component, which means that it will not be included in the GT4.2 release, nor supported once GT4.4 exists.

¹ <http://www.globus.org/toolkit/docs/2.4/mds/>

² http://www.globus.org/toolkit/mds/patch_for_mds2_in_gt40.html

Chapter 1. GT 4.0 Component Fact Sheet: Pre-Web Service Monitoring and Discovery System (Pre-WS MDS)

Warning

Please note that in the GT4 pre-WS build, MDS2 is not installed by default. This is because of security concerns with two third-party libraries, Open LDAP v.2.0.22 and Cyrus SASL (v. 1.5.27). That version of OpenLDAP has security vulnerabilities that are no longer being patched due to the age of the version (the current version is 2.2.25). This means that anyone who runs MDS2 on their server has a chance of being affected by this, although we have no reported cases of this occurring. A similar situation exists for the version of Cyrus SASL we are using although this can be avoided by not using MDS2 in secure-mode.

An unsupported, minimally-tested version of MDS2 based on more recent, more secure versions of OpenLDAP and Cyrus SASL is available for download [here](#)¹; however, we strongly recommend that any MDS2 users upgrade their system to use the new WSRF-based MDS4, and we will be happy to work with you to make this possible for your project. Please note that in GT4, MDS2 is a deprecated component, which means that it will not be included in the GT4.2 release, nor supported once GT4.4 exists.

1. Brief component overview

Pre-WS MDS provides a standard mechanism for publishing and discovering resource status and configuration information. It provides a uniform, flexible interface to data collected by lower-level information providers. It has a decentralized structure that allows it to scale, and it can handle static or dynamic data. A project can also restrict access to data by combining GSI (Grid Security Infrastructure) credentials and authorization features provided by MDS. Pre-WS MDS is essentially MDS 2.4 that came out with Globus Toolkit 2.4 and is based on LDAP and GRIS/GIIS protocols.

2. Summary of features

Features new in release 4.0

- None.

Other Supported Features

- Please view the existing documentation about MDS 2.4 features [here](#)².

Deprecated Features

- None.

3. Backward compatibility summary

Pre-WS MDS (MDS2) has not changed from the version in GT3.2, so should be fully compatible.

¹ http://www.globus.org/toolkit/mds/patch_for_mds2_in_gt40.html

² <http://www.globus.org/toolkit/docs/2.4/mds/>

4. Technology dependencies

Pre-WS MDS does not depend on other GT components:

Pre-WS MDS depends on the following 3rd party software (all of these are installed with Pre-WS MDS):

- OpenLDAP 2.0.22
- OpenSSL 0.9.6b (0.9.6a is also supported)
- SASL cyrus-sasl 1.5.27

For more information, see the MDS 2.2 system requirements [here](#)³.

5. Tested platforms

Please view the existing documentation about MDS 2.2 tested platforms [here](#)⁴.

6. For More Information

Click [here](#)⁵ for more information about this component.

³ <http://www.globus.org/toolkit/docs/2.4/mds/SystemRequirements.html>

⁴ <http://www.globus.org/toolkit/docs/2.4/mds/SystemRequirements.html>

⁵ [index.html](#)

Chapter 2. GT 4.0.8 Incremental Release Notes: Pre-WS MDS

1. Introduction

These release notes are for the incremental release 4.0.8. It includes a summary of changes since 4.0.7, bug fixes since 4.0.7 and any known problems that still exist at the time of the 4.0.8 release. This page is in addition to the top-level 4.0.8 release notes at <http://www.globus.org/toolkit/releasenotes/4.0.8>.

For release notes about 4.0 (including feature summary, technology dependencies, etc) go to the [Pre-WS MDS 4.0 Release Notes](#)¹.

2. Changes Summary

There were no changes for Pre-WS MDS since the previous release. This component is deprecated.

3. Bug Fixes

No bugs were fixed for Pre-WS MDS since the previous release. This component is deprecated.

4. Known Problems

No known problems exist for Pre-WS MDS at the time of this release.

5. For More Information

Click [here](#)² for more information about this component.

¹ http://www.globus.org/toolkit/docs/4.0/info/prewsmds/Pre_WS_MDS_Release_Notes.html

² [index.html](#)

Chapter 3. GT 4.0.7 Incremental Release Notes: Pre-WS MDS

1. Introduction

These release notes are for the incremental release 4.0.7. It includes a summary of changes since 4.0.6, bug fixes since 4.0.6 and any known problems that still exist at the time of the 4.0.7 release. This page is in addition to the top-level 4.0.7 release notes at <http://www.globus.org/toolkit/releasenotes/4.0.7>.

For release notes about 4.0 (including feature summary, technology dependencies, etc) go to the [Pre-WS MDS 4.0 Release Notes](#)¹.

2. Changes Summary

There were no changes for Pre-WS MDS since the previous release. This component is deprecated.

3. Bug Fixes

No bugs were fixed for Pre-WS MDS since the previous release. This component is deprecated.

4. Known Problems

No known problems exist for Pre-WS MDS at the time of this release.

5. For More Information

Click [here](#)² for more information about this component.

¹ http://www.globus.org/toolkit/docs/4.0/info/prewsmds/Pre_WS_MDS_Release_Notes.html

² [index.html](#)

Chapter 4. GT 4.0.6 Incremental Release Notes: Pre-WS MDS

1. Introduction

These release notes are for the incremental release 4.0.6. It includes a summary of changes since 4.0.5, bug fixes since 4.0.5 and any known problems that still exist at the time of the 4.0.6 release. This page is in addition to the top-level 4.0.6 release notes at <http://www.globus.org/toolkit/releasenotes/4.0.6>.

For release notes about 4.0 (including feature summary, technology dependencies, etc) go to the [Pre-WS MDS 4.0 Release Notes](#)¹.

2. Changes Summary

There were no changes for Pre-WS MDS since 4.0.5. This component is deprecated.

3. Bug Fixes

No bugs were fixed for Pre-WS MDS since 4.0.5. This component is deprecated.

4. Known Problems

No known problems exist for Pre-WS MDS at the time of the 4.0.6 release.

5. For More Information

Click [here](#)² for more information about this component.

¹ http://www.globus.org/toolkit/docs/4.0/info/prewsmds/Pre_WS_MDS_Release_Notes.html

² [index.html](#)

Chapter 5. GT 4.0.5 Incremental Release Notes: Pre-WS MDS

1. Introduction

These release notes are for the incremental release 4.0.5. It includes a summary of changes since 4.0.4, bug fixes since 4.0.4 and any known problems that still exist at the time of the 4.0.5 release. This page is in addition to the top-level 4.0.5 release notes at <http://www.globus.org/toolkit/releasenotes/4.0.5>.

For release notes about 4.0 (including feature summary, technology dependencies, etc) go to the [Pre-WS MDS 4.0 Release Notes](#)¹.

2. Changes Summary

There were no changes for Pre-WS MDS since 4.0.4. This component is deprecated.

3. Bug Fixes

No bugs were fixed for Pre-WS MDS since 4.0.4. This component is deprecated.

4. Known Problems

No known problems exist for Pre-WS MDS at the time of the 4.0.5 release.

5. For More Information

Click [here](#)² for more information about this component.

¹ http://www.globus.org/toolkit/docs/4.0/info/prewsmds/Pre_WS_MDS_Release_Notes.html

² [index.html](#)

Chapter 6. GT 4.0.4 Incremental Release Notes: Pre-WS MDS

1. Introduction

These release notes are for the incremental release 4.0.4. It includes a summary of changes since 4.0.3, bug fixes since 4.0.3 and any known problems that still exist at the time of the 4.0.4 release. This page is in addition to the top-level 4.0.4 release notes at <http://www.globus.org/toolkit/releasenotes/4.0.4>.

For release notes about 4.0 (including feature summary, technology dependencies, etc) go to the [Pre-WS MDS 4.0 Release Notes](#)¹.

2. Changes Summary

There were no changes for Pre-WS MDS since 4.0.3.

3. Bug Fixes

No bugs were fixed for Pre-WS MDS since 4.0.3.

4. Known Problems

No known problems exist for Pre-WS MDS at the time of the 4.0.4 release.

5. For More Information

Click [here](#)² for more information about this component.

¹ http://www.globus.org/toolkit/docs/4.0/info/prewsmds/Pre_WS_MDS_Release_Notes.html

² [index.html](#)

Chapter 7. GT 4.0.3 Incremental Release Notes: Pre-WS MDS

1. Introduction

These release notes are for the incremental release 4.0.3. It includes a summary of changes since 4.0.2, bug fixes since 4.0.2 and any known problems that still exist at the time of the 4.0.3 release. This page is in addition to the top-level 4.0.3 release notes at <http://www.globus.org/toolkit/releasenotes/4.0.3>.

For release notes about 4.0 (including feature summary, technology dependencies, etc) go to the [Pre-WS MDS 4.0 Release Notes](#)¹.

2. Changes Summary

The only change for Pre-WS MDS since 4.0.2 was a bug fix.

3. Bug Fixes

The following bug has been fixed for Pre-WS MDS since 4.0.2:

- [Bug 4663](#):² gt4.0.2-all-source-installer with target prewsmds doesn't work with some compilers

4. Known Problems

No known problems exist for Pre-WS MDS at the time of the 4.0.3 release.

5. For More Information

Click [here](#)³ for more information about this component.

¹ http://www.globus.org/toolkit/docs/4.0/info/prewsmds/Pre_WS_MDS_Release_Notes.html

² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4663

³ [index.html](#)

Chapter 8. GT 4.0.2 Incremental Release Notes: Pre-WS MDS

1. Introduction

These release notes are for the incremental release 4.0.2. It includes a summary of changes since 4.0.1, bug fixes since 4.0.1 and any known problems that still exist at the time of the 4.0.2 release. This page is in addition to the top-level 4.0.2 release notes at <http://www.globus.org/toolkit/releasenotes/4.0.2>.

For release notes about 4.0 (including feature summary, technology dependencies, etc) go to the [Pre-WS MDS 4.0 Release Notes](#)¹.

2. Changes Summary

Other than a build bug fix, no changes have occurred for Pre-WS MDS since 4.0.1.

3. Bug Fixes

The following bug has been fixed for Pre-WS MDS since 4.0.1:

- [Bug 4167](#):² SASL build failure in trunk and 4.0 branch

4. Known Problems

No known problems exist for Pre-WS MDS at the time of the 4.0.2 release.

5. For More Information

Click [here](#)³ for more information about this component.

¹ http://www.globus.org/toolkit/docs/4.0/info/prewsmds/Pre_WS_MDS_Release_Notes.html

² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4167

³ [index.html](#)

Chapter 9. GT 4.0.1 Incremental Release Notes: Pre-WS MDS

1. Introduction

These release notes are for the incremental release 4.0.1. It includes a summary of changes since 4.0.0, bug fixes since 4.0.0 and any known problems that still exist at the time of the 4.0.1 release. This page is in addition to the top-level 4.0.1 release notes at <http://www.globus.org/toolkit/releasenotes/4.0.1>.

For release notes about 4.0 (including feature summary, technology dependencies, etc) go to the [Pre-WS MDS 4.0 Release Notes](#)¹.

2. Changes Summary

Other than bug fixes, no changes have occurred for Pre-WS MDS.

3. Bug Fixes

The following bugs were fixed for Pre-WS MDS:

- [Bug 3437](#):² shell test uses "==" instead of "=" for AIX uname comparison
- [Bug 3441](#):³ MDS info provider fails to gather network info on Tru64

4. Known Problems

No known problems exist for Pre-WS MDS at the time of the 4.0.1 release.

5. For More Information

Click [here](#)⁴ for more information about this component.

¹ http://www.globus.org/toolkit/docs/4.0/info/prewsmds/Pre_WS_MDS_Release_Notes.html

² http://bugzilla.globus.org/globus/show_bug.cgi?id=#

³ http://bugzilla.globus.org/globus/show_bug.cgi?id=#

⁴ [index.html](#)

Chapter 10. GT 4.0 Development Release Notes for Pre-WS MDS

Warning

Please note that in the GT4 pre-WS build, MDS2 is not installed by default. This is because of security concerns with two third-party libraries, Open LDAP v.2.0.22 and Cyrus SASL (v. 1.5.27). That version of OpenLDAP has security vulnerabilities that are no longer being patched due to the age of the version (the current version is 2.2.25). This means that anyone who runs MDS2 on their server has a chance of being affected by this, although we have no reported cases of this occurring. A similar situation exists for the version of Cyrus SASL we are using although this can be avoided by not using MDS2 in secure-mode.

An unsupported, minimally-tested version of MDS2 based on more recent, more secure versions of OpenLDAP and Cyrus SASL is available for download [here](#)¹; however, we strongly recommend that any MDS2 users upgrade their system to use the new WSRF-based MDS4, and we will be happy to work with you to make this possible for your project. Please note that in GT4, MDS2 is a deprecated component, which means that it will not be included in the GT4.2 release, nor supported once GT4.4 exists.

1. Component Overview

Pre-WS MDS provides a standard mechanism for publishing and discovering resource status and configuration information. It provides a uniform, flexible interface to data collected by lower-level information providers. It has a decentralized structure that allows it to scale, and it can handle static or dynamic data. A project can also restrict access to data by combining GSI (Grid Security Infrastructure) credentials and authorization features provided by MDS. Pre-WS MDS is essentially MDS 2.4 that came out with Globus Toolkit 2.4 and is based on LDAP and GRIS/GIIS protocols.

2. Feature Summary

Features new in release 4.0

- None.

Other Supported Features

- Please view the existing documentation about MDS 2.4 features [here](#)².

Deprecated Features

- None.

3. Bug Fixes

- Bugzilla url here
- ...
- Bugzilla url here

¹ http://www.globus.org/toolkit/mds/patch_for_mds2_in_gt40.html

² <http://www.globus.org/toolkit/docs/2.4/mds/>

4. Known Problems

- Bugzilla url here
- ...
- Bugzilla url here

5. Technology Dependencies

Pre-WS MDS does not depend on other GT components:

Pre-WS MDS depends on the following 3rd party software (all of these are installed with Pre-WS MDS):

- OpenLDAP 2.0.22
- OpenSSL 0.9.6b (0.9.6a is also supported)
- SASL cyrus-sasl 1.5.27

For more information, see the MDS 2.2 system requirements [here](#)³.

6. Tested Platforms

Please view the existing documentation about MDS 2.2 tested platforms [here](#)⁴.

7. Backward Compatibility Summary

Pre-WS MDS (MDS2) has not changed from the version in GT3.2, so should be fully compatible.

8. For More Information

Click [here](#)⁵ for more information about this component.

³ <http://www.globus.org/toolkit/docs/2.4/mds/SystemRequirements.html>

⁴ <http://www.globus.org/toolkit/docs/2.4/mds/SystemRequirements.html>

⁵ [index.html](#)