



Release Notes

/ Web Agents 5.8.2.1

Latest update: 5.8.2.1

ForgeRock AS.
201 Mission St., Suite 2900
San Francisco, CA 94105, USA
+1 415-599-1100 (US)
www.forgerock.com

Copyright © 2011-2021 ForgeRock AS.

Abstract

Notes covering prerequisites, fixes, and known issues for ForgeRock® Access Management Web Agent. ForgeRock Access Management provides authentication, authorization, entitlement, and federation software.



This work is licensed under the Creative Commons Attribution-NonCommercial-NoDerivs 3.0 Unported License.

To view a copy of this license, visit <https://creativecommons.org/licenses/by-nc-nd/3.0/> or send a letter to Creative Commons, 444 Castro Street, Suite 900, Mountain View, California, 94041, USA.

ForgeRock® and ForgeRock Identity Platform™ are trademarks of ForgeRock Inc. or its subsidiaries in the U.S. and in other countries. Trademarks are the property of their respective owners.

UNLESS OTHERWISE MUTUALLY AGREED BY THE PARTIES IN WRITING, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

DejaVu Fonts

Bitstream Vera Fonts Copyright

Copyright (c) 2003 by Bitstream, Inc. All Rights Reserved. Bitstream Vera is a trademark of Bitstream, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of the fonts accompanying this license ("Fonts") and associated documentation files (the "Font Software"), to reproduce and distribute the Font Software, including without limitation the rights to use, copy, merge, publish, distribute, and/or sell copies of the Font Software, and to permit persons to whom the Font Software is furnished to do so, subject to the following conditions:

The above copyright and trademark notices and this permission notice shall be included in all copies of one or more of the Font Software typefaces.

The Font Software may be modified, altered, or added to, and in particular the designs of glyphs or characters in the Fonts may be modified and additional glyphs or characters may be added to the Fonts, only if the fonts are renamed to names not containing either the words "Bitstream" or the word "Vera".

This License becomes null and void to the extent applicable to Fonts or Font Software that has been modified and is distributed under the "Bitstream Vera" names.

The Font Software may be sold as part of a larger software package but no copy of one or more of the Font Software typefaces may be sold by itself.

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL BITSTREAM OR THE GNOME FOUNDATION BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

Except as contained in this notice, the names of Gnome, the Gnome Foundation, and Bitstream Inc., shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Font Software without prior written authorization from the Gnome Foundation or Bitstream Inc., respectively. For further information, contact: fonts at gnome dot org.

Arev Fonts Copyright

Copyright (c) 2006 by Tavmjong Bah. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of the fonts accompanying this license ("Fonts") and associated documentation files (the "Font Software"), to reproduce and distribute the modifications to the Bitstream Vera Font Software, including without limitation the rights to use, copy, merge, publish, distribute, and/or sell copies of the Font Software, and to permit persons to whom the Font Software is furnished to do so, subject to the following conditions:

The above copyright and trademark notices and this permission notice shall be included in all copies of one or more of the Font Software typefaces.

The Font Software may be modified, altered, or added to, and in particular the designs of glyphs or characters in the Fonts may be modified and additional glyphs or characters may be added to the Fonts, only if the fonts are renamed to names not containing either the words "Tavmjong Bah" or the word "Arev".

This License becomes null and void to the extent applicable to Fonts or Font Software that has been modified and is distributed under the "Tavmjong Bah Arev" names.

The Font Software may be sold as part of a larger software package but no copy of one or more of the Font Software typefaces may be sold by itself.

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL TAVMJONG BAH BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

Except as contained in this notice, the name of Tavmjong Bah shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Font Software without prior written authorization from Tavmjong Bah. For further information, contact: tavmjong @ free . fr.

FontAwesome Copyright

Copyright (c) 2017 by Dave Gandy, <https://fontawesome.com/>.

This Font Software is licensed under the SIL Open Font License, Version 1.1. See <https://opensource.org/licenses/OFL-1.1>.

Table of Contents

Overview	iv
1. What's New	1
What's New in Web Agents 5.8.2.1	1
What's New in Web Agents 5.8.2	1
What's New in Web Agents 5.8.1	1
What's New in Web Agents 5.8	1
2. Requirements	3
Platform Requirements	3
AM Requirements	4
OpenSSL Requirements	4
Other Requirements	5
Special Requests	6
3. Incompatible Changes	7
Incompatible Changes in Web Agents 5.8.2.1	7
Incompatible Changes in Web Agents 5.8.2	7
Incompatible Changes in Web Agents 5.8.1	7
Incompatible Changes in Web Agents 5.8	7
4. Deprecation	8
5. Removed	9
Removed in Web Agents 5.8.2.1	9
Removed in Web Agents 5.8.2	9
Removed in Web Agents 5.8.1	9
Removed in Web Agents 5.8	9
6. Fixes	10
Fixes in Web Agents 5.8.2.1	10
Fixes in Web Agents 5.8.2	10
Fixes in Web Agents 5.8.1	10
Fixes in Web Agents 5.8	11
Security Advisories	11
7. Limitations	12
Limitations in Web Agents 5.8.2.1	12
Limitations in Web Agents 5.8.2	12
Limitations in Web Agents 5.8.1	12
Limitations in Web Agents 5.8	12
8. Known Issues	15
Known Issues in Web Agents 5.8.2.1	15
Known Issues in Web Agents 5.8.2	15
Known Issues in Web Agents 5.8.1	15
Known Issues in Web Agents 5.8	15
9. Documentation	17
A. Release Levels and Interface Stability	18
ForgeRock Product Release Levels	18
ForgeRock Product Stability Labels	19
B. Getting Support	21

Overview

Quick Start

 What's New Discover new features and improvements in this version.	 Prepare for Deployment Learn about the requirements for running Web Agents software in production.	 Check Compatibility Review key implementation changes and compatibility with previous deployments.
 Review Fixes Review bug fixes, limitations, and open issues.	 Check Doc Updates Track important changes to the documentation.	 Get Support Find out where to get professional support and training.

ForgeRock Identity Platform™ serves as the basis for our simple and comprehensive Identity and Access Management solution. We help our customers deepen their relationships with their customers, and improve the productivity and connectivity of their employees and partners. For more information about ForgeRock and about the platform, see <https://www.forgerock.com>.

The ForgeRock Common REST API works across the platform to provide common ways to access web resources and collections of resources.

Chapter 1

What's New

What's New in Web Agents 5.8.2.1

Web Agents 5.8.2.1 is a maintenance release. It does not introduce new features.

What's New in Web Agents 5.8.2

Web Agents 5.8.2 is a maintenance release. It does not introduce new features.

What's New in Web Agents 5.8.1

Web Agents 5.8.1 is a maintenance release. It does not introduce new features.

What's New in Web Agents 5.8

+ *HTTP connection pooling*

The bootstrap property **org.forgerock.agents.config.connection.pool.enable** was added for HTTP connection pooling, and is enabled by default.

Use connection pooling to improve performance when AM is available over low bandwidth connections, or to throttle the maximum number of connections made by the agent.

For more information, see `org.forgerock.agents.config.connection.pool.enable` in the *User Guide*.

+ *SSO Token Name*

The name of the cookie that the agent accepts as an SSO token, or uses in custom login mode, can now be specified in the property `com.sun.identity.agents.config.cookie.name`. If the cookie name is not specified, the agent retrieves it from the AM server.

For more information, see *Cookie Name* in the *User Guide*, *Accept SSO Token* in the *User Guide*, and *Custom Login Mode* in the *User Guide*.

+ *Load balancing cookie*

A load balancing cookie can now be sent to AM for policy, session, and other calls. Use this property to reduce the number of calls that different AM instances make to the Core Token Service (CTS).

For more information, see *AM Load Balancer Cookie Enabled* in the *User Guide*.

Chapter 2 Requirements

Important

ForgeRock supports customers using the versions specified here. Other versions and alternative environments might work as well. When opening a support ticket for an issue, however, make sure you can also reproduce the problem on a combination covered here.

ForgeRock supports customers using the versions specified here. Other versions and alternative environments might work as well. When opening a support ticket for an issue, however, make sure you can also reproduce the problem on a combination covered here.

Platform Requirements

The following table summarizes platform support.

Supported Operating Systems and Web Servers

Operating Systems	OS Versions	Web Servers & Minimum Supported Versions
Amazon Linux 2, CentOS, Oracle Linux, Red Hat Enterprise Linux	7, 8	Apache HTTP Server 2.4, IBM HTTP Server 9, NGINX Plus R21, ^a NGINX Plus R22, NGINX Plus R23
Ubuntu Linux	16.04 LTS, ^a 18.04 LTS, 20.04 LTS	Apache HTTP Server 2.4, IBM HTTP Server 9, NGINX Plus R21, ^a NGINX Plus R22, NGINX Plus R23
IBM AIX	7	IBM HTTP Server 9
Microsoft Windows Server	2012 R2 ^a	Apache HTTP Server 2.4, ^{a b} Microsoft IIS 8.5 ^a
	2016	Apache HTTP Server 2.4, ^b Microsoft IIS 10
	2019	Apache HTTP Server 2.4, ^b Microsoft IIS 10

^aSupport for this platform will be discontinued in a future release.

^b The Apache HTTP Server Project does not offer binary releases for Microsoft Windows. The ForgeRock Apache HTTP Server web agent for Windows was tested against the binaries offered by Apache Lounge.

Important

1. Web Agents 5.8.2.1 require the WebSocket protocol to communicate with AM. Both the web server and the network infrastructure must support the WebSocket protocol. For example, Apache HTTP server requires the `proxy_wstunnel_module` for proxying the WebSocket protocol.

Refer to your network infrastructure and web server documentation for more information about WebSocket support.

2. 32-bit architectures are not supported.

AM Requirements

- Web Agents 5.8.2.1 supports AM 5.5 and later.
- Web Agents 5.8.2.1 requires the WebSocket protocol to communicate with AM. Both the web server and the network infrastructure must support the WebSocket protocol. For example, Apache HTTP server requires the `proxy_wstunnel_module` for proxying the WebSocket protocol.

Refer to your network infrastructure and web server documentation for more information about WebSocket support.

- If you are upgrading from a version earlier than 5, Web Agents 5 introduced notable changes in the configuration. For example, if you are using custom login pages, you must enable the `org.forgerock.openam.agents.config.allow.custom.login` property. For more information about changes introduced in Web Agents 5, refer to the Web Agents 5 Release Notes.

OpenSSL Requirements

Web Agents requires OpenSSL or the Windows built-in Secure Channel API to be present. These libraries help to secure communications, for example, when connecting to AM using the WebSocket protocol.

The following table summarizes OpenSSL support in Web Agents 5.8.2.1:

Supported OpenSSL Versions

Operating Systems	OpenSSL Versions
CentOS Red Hat Enterprise Linux Oracle Linux Ubuntu Linux	OpenSSL 1.0.x, OpenSSL 1.1.0, OpenSSL 1.1.1

Operating Systems	OpenSSL Versions
Microsoft Windows Server	OpenSSL 1.0.x, OpenSSL 1.1.0, OpenSSL 1.1.1 ^a
Oracle Solaris X86/SPARC	OpenSSL 0.9.8, OpenSSL 1.0.x, OpenSSL 1.1.0, OpenSSL 1.1.1
IBM AIX	OpenSSL 0.9.8, OpenSSL 1.0.x, OpenSSL 1.1.0, OpenSSL 1.1.1

^a On Windows operating systems, the web agents use the Windows built-in Secure Channel API by default.

Important

1. OpenSSL 1.0.2 or later is required to support TLSv1.2. If you have to use an earlier, *weaker* cipher in your environment, configure the `org.forgerock.agents.config.tls` bootstrap property with a security protocol other than TLSv1.2.
2. OpenSSL 1.1.1 or later is required to support TLSv1.3.

Other Requirements

Before installing Web Agents on your platform, also make sure that the system meets the following requirements:

Linux Systems

- Before installing Web Agents on Linux, run the following command to make sure that `libc.so.6` is available, and that it supports the GLIBC_2.3 API:

```
$ strings libc.so.6 | grep GLIBC_2
```

- Web agents on Linux require a minimum of 16 MB of shared memory for the session and policy cache and the various worker processes and additionally, 32 KB shared memory for the logging system. Failure to provide enough shared memory may result in errors similar to the following:

```
2017-11-10 12:06:00.492 +0000 DEBUG [1:7521][source/shared.c:1451]am_shm_create2() about to create
block-clusters_0, size 1074008064
2017-11-10 12:06:00.492 +0000 ERROR [1:7521]am_shm_create2(): ftruncate failed, error: 28
```

To configure additional shared memory for the session and policy cache, see "Configuring Web Agent Environment Variables" in the *User Guide*.

- If POST data preservation is enabled, the web agent requires additional free disk space in the web agent installation directory to store the POST data cache files. To change the POST data storage directory, see Post Data Preservation in the *User Guide*.

Microsoft Windows Systems

- Before installing the IIS web agent, make sure that the optional Application Development component of Web Server (IIS) is installed. In the Windows Server 2012 Server Manager for example, Application Development is a component of Web Server (IIS) | Web Server.

- Web agents on Windows require a minimum of 16 MB of shared memory for the session and policy cache and the various worker processes in the system page file and additionally, 32 KB shared memory for the logging system. Failure to provide enough shared memory may result in errors similar to the following:

```
2017-11-10 12:06:00.492 +0000  DEBUG [1:7521][source/shared.c:1451]am_shm_create2() about to create
block-clusters_0, size 1074008064
2017-11-10 12:06:00.492 +0000  ERROR [1:7521]am_shm_create2(): ftruncate failed, error: 28
```

To configure additional shared memory for the session and policy cache, see "Configuring Web Agent Environment Variables" in the *User Guide*.

- If POST data preservation is enabled, the web agent requires additional free disk space in the web agent installation directory to store the POST data cache files. To change the POST data storage directory, see Post Data Preservation in the *User Guide*.

Special Requests

If you have a special request regarding support for a combination not listed here, contact ForgeRock at info@forgerock.com.

Chapter 3

Incompatible Changes

Incompatible Changes in Web Agents 5.8.2.1

No incompatible changes were introduced in this release.

Incompatible Changes in Web Agents 5.8.2

No incompatible changes were introduced in this release.

Incompatible Changes in Web Agents 5.8.1

No incompatible changes were introduced in this release.

Incompatible Changes in Web Agents 5.8

No incompatible changes were introduced in this release.

Chapter 4

Deprecation

Deprecation is defined in "*Release Levels and Interface Stability*".

Deprecated In	Object	Description
Web Agents 5.7	<code>com.forgerock.agents.accept.ipdp.cookie</code>	For AM 6 or later, use <code>com.forgerock.agents.accept.sso.token</code> instead, as described in Accept SSO Token in the <i>User Guide</i> .

Chapter 5 Removed

Removed is defined in "*Release Levels and Interface Stability*".

Removed in Web Agents 5.8.2.1

No features or properties were removed in this release.

Removed in Web Agents 5.8.2

No features or properties were removed in this release.

Removed in Web Agents 5.8.1

No features or properties were removed in this release.

Removed in Web Agents 5.8

The following property was removed in this release.

Object	Description
<code>org.forgerock.agents.config.keepalive.disable</code>	<p>Removed with the introduction of <code>org.forgerock.agents.config.connection.pool.enable</code> for connection pooling.</p> <p>The removed property is ignored for Web Agents 5.8.</p>

Chapter 6

Fixes

Fixes in Web Agents 5.8.2.1

For information about security issues fixed in this release, see "Security Advisories". The following issue was fixed in this release:

- AMAGENTS-3134: Invalid configuration of `postdata.preserve.dir` leads to crash / segmentation fault

Fixes in Web Agents 5.8.2

For information about security issues fixed in this release, see "Security Advisories". The following issues were fixed in this release:

- AMAGENTS-4275: Notifications not working AM with Weblogic Server
- AMAGENTS-4292: WPA is failing to complete authentication when there is no Content-Length header set on authn POST from AM
- AMAGENTS-4298: Validator segmentation fault with `validate_session_profile` test

Fixes in Web Agents 5.8.1

The following issues were fixed in this release:

- AMAGENTS-4216: When fragment redirection is enabled, the Agent ignores the query string
- AMAGENTS-4188: Agent 5.8 will crash with local (not central) configuration.
- AMAGENTS-4165: agent will not translate `http` to `https` in `agent/cdsso-oauth2` redirect in SSL offloading case on `nginx`
- AMAGENTS-4101: inconsistent behavior for JSON request between web agent 4.2.1.2 and 5.7.0 for `content-type` header
- AMAGENTS-4064: fragments don't work in a ssl terminated environment
- AMAGENTS-3165: Seg Fault if policy evaluation realm properties are null in local configuration.

Fixes in Web Agents 5.8

The following issues were fixed in this release:

- AMAGENTS-3986: Web agent is not shutting down correctly, leaving worker processes waiting on semaphores.
- AMAGENTS-3848: com.sun.identity.agents.config.local.log.size does not work in agent.conf
- AMAGENTS-3818: Upgrade source bundled PCRE library to PCRE2
- AMAGENTS-3780: (MIME) UTF-8 base64 headers encoding is missing "?=" at the end of encoded value
- AMAGENTS-3718: Webagent does not read getSessionInfo response attributes outside "properties" element
- AMAGENTS-3682: Agent 5.7 fragment support incompatible with pattern-based conditional login

Security Advisories

ForgeRock issues security advisories in collaboration with our customers and the open source community to address any security vulnerabilities transparently and rapidly. ForgeRock's security advisory policy governs the process on how security issues are submitted, received, and evaluated as well as the timeline for the issuance of security advisories and patches.

For details of all the security advisories across ForgeRock products, see [Security Advisories](#) in the *Knowledge Base library*.

Chapter 7

Limitations

Limitations in Web Agents 5.8.2.1

No additional limitations were introduced in this release.

Limitations in Web Agents 5.8.2

No additional limitations were introduced in this release.

Limitations in Web Agents 5.8.1

No additional limitations were introduced in this release.

Limitations in Web Agents 5.8

The following limitations are inherent to the design, not bugs to be fixed:

+ *Custom Login Redirection Mode Requires AM 6 or Later*

Redirect of users to a specific AM instance, an AM site, or website other than AM, requires AM 6 or later versions. For more information, see "Login Redirection and Login Conditional Redirection" in the *User Guide*.

+ *Ignore Path Info Properties Is not Supported for NGINX Plus Agent*

The NGINX Plus web agent does not support the following ignore path info properties:

- `com.sun.identity.agents.config.ignore.path.info`
- `com.sun.identity.agents.config.ignore.path.info.for.not.enforced.list`

+ *IIS Web Agents May Fail to Install When IIS Configuration Is Locked*

Installing web agents in IIS may fail with an error similar to the following:

```
Creating configuration...
Error: failed to create module entry for MACHINE/WEBSITE/AppHost/AgentSite/ (error 0x80070021, line:
1823).
The process cannot access the file because another process has locked a portion of the file. (error:
0x21).
Installation failed.
```

This error message means the **agentadmin.exe** command cannot access some IIS configuration files because they are locked.

To work around this issue, perform the following steps:

1. Open the IIS Manager and select the Configuration Editor.
2. Unlock the IIS `system.webServer/modules` module.
3. Retry the web agent installation.

Note

Unlocking the `system.webServer/modules` module should allow the installation to finish. However, you may need to unlock other modules depending on your environment.

+ Apache HTTP Server Authentication Functionality Not Supported

The web agent replaces authentication functionality provided by Apache, for example, the `mod_auth_*` modules. Integration with built-in Apache `httpd` authentication directives, such as `AuthName`, `FilesMatch`, and `Require` is not supported.

+ IIS Web Agent With Client-Based Sessions Returning HTTP 403 Errors When Accessing Protected Resources

IIS web agents configured for client-based sessions will return HTTP 403 errors when trying to access a protected resource if the `com.sun.identity.client.notification.url` property is configured.

The `com.sun.identity.client.notification.url` property, used by earlier versions of the web agents to specify the notification listener for the agent, is not used or required anymore. However, to provide backwards-compatibility with earlier versions of the agents, AM populates this property when creating the agent profile.

The value of this property should be removed for all web agents installations, and must be removed for IIS web agents configured for client-based sessions.

+ Default Welcome Page Showing After Upgrade Instead of Custom Error Pages

After upgrading, you may see the default Apache welcome pages instead of custom error pages defined by the Apache `ErrorDocument` directive.

If you encounter this issue, check your Apache `ErrorDocument` configuration. If the custom error pages are not in the document root of the Apache server, you should enclose the `ErrorDocument` directives in `Directory` elements. For example:

```
<Directory "/web/docs">  
  ErrorDocument 403 myCustom403Error.html  
</Directory>
```

Refer to the Apache documentation for more details on the `ErrorDocument` directive.

+ *CA Certificate File Name Property not Honored when Client Authentication is not Required in Secure Channel Environments*

If you are using the Windows built-in Secure Channel API but your environment does not require client authentication, instead of setting the CA certificate friendly name in the CA Certificate File Name Property, set it in the Public Client Certificate File Name property. For example:

```
com.forgerock.agents.config.cert.ca.file =  
com.forgerock.agents.config.cert.file = CA-cert-friendly-name  
com.sun.identity.agents.config.trust.server.certs = false
```

+ *Install IIS Web Agents on Child Applications Before Installing in Parent Application*

In an IIS environment where you need to protect a parent application and a child application with different web agent configurations, you must install the web agent on the child application before installing the web agent in the parent. Trying to install a web agent on a child that is already protected will result in error.

Chapter 8

Known Issues

Web Agents issues are tracked at <https://bugster.forgerock.org/jira/browse/AMAGENTS>.

Known Issues in Web Agents 5.8.2.1

No additional issues were opened in this release.

Known Issues in Web Agents 5.8.2

No additional issues were opened in this release.

Known Issues in Web Agents 5.8.1

No additional issues were opened in this release.

Known Issues in Web Agents 5.8

The following important issue remained open at the time of this release:

- AMAGENTS-2813: Agents Logout perform logout multiple times
- AMAGENTS-3493: Custom login redirection add original_request_url parameter which is not used
- AMAGENTS-3506: If there are permissions issues with password file with installation on IIS then the log messages are not helpful
- AMAGENTS-3507: We still use locale (%Z) on windows logging time even though were statically UTC
- AMAGENTS-3663: Nginx Agent print absolute build path into debug logs
- AMAGENTS-3798: The AM Conditional Login URL should check that the entry has a | in it
- AMAGENTS-3864: Cannot install web agent if the AM URL does not return 302

- AMAGENTS-3992: com.forgerock.agents.config.hostmap does not seem to use the IP address

Chapter 9

Documentation

Date	Description
July 2021	Release of Web Agents 5.8.2.1 software.
May 2021	Release of Web Agents 5.8.2 software.
April 2021	Release of Web Agents 5.8.1 software.
February 2021	<p>Release of Web Agents 5.8 software.</p> <p>In addition to the changes described elsewhere in these notes, the following important changes were made to the documentation:</p> <p>New documents</p> <ul style="list-style-type: none">• The ForgeRock Identity Cloud Guide was added to provide examples of how to integrate your business application and APIs with ForgeRock Identity Cloud.

Appendix A. Release Levels and Interface Stability

This appendix includes ForgeRock definitions for product release levels and interface stability.

ForgeRock Product Release Levels

ForgeRock defines Major, Minor, Maintenance, and Patch product release levels. The release level is reflected in the version number. The release level tells you what sort of compatibility changes to expect.

Release Level Definitions

Release Label	Version Numbers	Characteristics
Major	Version: x[.0.0] (trailing 0s are optional)	<ul style="list-style-type: none">• Bring major new features, minor features, and bug fixes• Can include changes even to Stable interfaces• Can remove previously Deprecated functionality, and in rare cases remove Evolving functionality that has not been explicitly Deprecated• Include changes present in previous Minor and Maintenance releases
Minor	Version: x.y[.0] (trailing 0s are optional)	<ul style="list-style-type: none">• Bring minor features, and bug fixes

Release Label	Version Numbers	Characteristics
		<ul style="list-style-type: none"> • Can include backwards-compatible changes to Stable interfaces in the same Major release, and incompatible changes to Evolving interfaces • Can remove previously Deprecated functionality • Include changes present in previous Minor and Maintenance releases
Maintenance, Patch	Version: x.y.z[.p] The optional <code>.p</code> reflects a Patch version.	<ul style="list-style-type: none"> • Bring bug fixes • Are intended to be fully compatible with previous versions from the same Minor release

ForgeRock Product Stability Labels

ForgeRock products support many features, protocols, APIs, GUIs, and command-line interfaces. Some of these are standard and very stable. Others offer new functionality that is continuing to evolve.

ForgeRock acknowledges that you invest in these features and interfaces, and therefore must know when and how ForgeRock expects them to change. For that reason, ForgeRock defines stability labels and uses these definitions in ForgeRock products.

ForgeRock Stability Label Definitions

Stability Label	Definition
Stable	This documented feature or interface is expected to undergo backwards-compatible changes only for major releases. Changes may be announced at least one minor release before they take effect.
Evolving	<p>This documented feature or interface is continuing to evolve and so is expected to change, potentially in backwards-incompatible ways even in a minor release. Changes are documented at the time of product release.</p> <p>While new protocols and APIs are still in the process of standardization, they are Evolving. This applies for example to recent Internet-Draft implementations, and also to newly developed functionality.</p>
Legacy	<p>This feature or interface has been replaced with an improved version, and is no longer receiving development effort from ForgeRock.</p> <p>You should migrate to the newer version, however the existing functionality will remain.</p> <p>Legacy features or interfaces will be marked as <i>Deprecated</i> if they are scheduled to be removed from the product.</p>

Stability Label	Definition
Deprecated	This feature or interface is deprecated and likely to be removed in a future release. For previously stable features or interfaces, the change was likely announced in a previous release. Deprecated features or interfaces will be removed from ForgeRock products.
Removed	This feature or interface was deprecated in a previous release and has now been removed from the product.
Technology Preview	<p>Technology previews provide access to new features that are considered as new technology that is not yet supported. Technology preview features may be functionally incomplete and the function as implemented is subject to change without notice. DO NOT DEPLOY A TECHNOLOGY PREVIEW INTO A PRODUCTION ENVIRONMENT.</p> <p>Customers are encouraged to test drive the technology preview features in a non-production environment and are welcome to make comments and suggestions about the features in the associated forums.</p> <p>ForgeRock does not guarantee that a technology preview feature will be present in future releases, the final complete version of the feature is liable to change between preview and the final version. Once a technology preview moves into the completed version, said feature will become part of the ForgeRock platform. Technology previews are provided on an “AS-IS” basis for evaluation purposes only and ForgeRock accepts no liability or obligations for the use thereof.</p>
Internal/Undocumented	Internal and undocumented features or interfaces can change without notice. If you depend on one of these features or interfaces, contact ForgeRock support or email info@forgerock.com to discuss your needs.

Appendix B. Getting Support

ForgeRock provides support services, professional services, training through ForgeRock University, and partner services to assist you in setting up and maintaining your deployments. For a general overview of these services, see <https://www.forgerock.com>.

ForgeRock has staff members around the globe who support our international customers and partners. For details on ForgeRock's support offering, including support plans and service level agreements (SLAs), visit <https://www.forgerock.com/support>.

ForgeRock publishes comprehensive documentation online:

- The ForgeRock Knowledge Base offers a large and increasing number of up-to-date, practical articles that help you deploy and manage ForgeRock software.

While many articles are visible to community members, ForgeRock customers have access to much more, including advanced information for customers using ForgeRock software in a mission-critical capacity.

- ForgeRock product documentation, such as this document, aims to be technically accurate and complete with respect to the software documented. It is visible to everyone and covers all product features and examples of how to use them.