

Access Manager Appliance 4.0 Service Pack 1 Hotfix 2 Readme

October 2014



The Access Manager Appliance Service Pack 1 Hotfix 2 (4.0.1 HF2) supercedes Access Manager Appliance Service Pack 1 Hotfix 1.

For the list of software fixes and enhancements in the previous release, see [Access Manager Appliance 4.0 SP1 HF1 readme](#).

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1 What's New?

Access Manager 4.0.1 HF2 provides the following fixes in this release.

1.1 Fixed Issues

The following sections outline the issues resolved in this release:

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1.1.1 Software Fixes for the Administration Console

Following issues are fixed in the Administration Console:

1.1.1.1 Issue with Including Semicolon in a Protected Resource Path

Issue: The Administration Console displays an invalid path error when a semicolon (;) is included in the protected resource path. [Bug 884452]

Fix: You can now include a semicolon in the protected resource path.

1.1.1.2 Timestamps Not Written to Audit Log

Issue: After upgrading from Access Manager version 3.2 to 4.0, timestamps are not written to the audit log. [Bug 889844]

Fix: To ensure timestamps are written to the audit log, execute the following steps:

- 1 Upgrade to 4.0.1 HF 2 patch. For instructions about upgrading, see [Section 2, "Upgrading to 4.0.1 HF2," on page 5](#).
- 2 Traverse to `/opt/novell/nam/adminconsole` folder

- 3 Extract the tar file using the `tar -xzf nauditfix.tar` command.
- 4 Traverse to nauditfix folder using `cd nauditfix` command.
- 5 Run the script using `./fix_audit_server.sh` command.
 - 5a Validate the IP address of the Administration Console.
 - 5b Specify the Administration Console credentials to continue installation of the script.

After installation of the script, verify logs placed in `/opt/novell/nam/adminconsole/nauditfix` folder.

1.1.1.3 Incorrect Web Server Status Displayed

Issue: Status on the dashboard incorrectly displays connected and active status (Green color) even though the Access Gateway server is down. [Bug 881619]

Fix: The status of the Web servers are now displayed correctly.

1.1.1.4 Backup Fails When the Backup File Is Not Stored in the Root Partition

Issue: If the backup location is on another partition than the root partition, `ambkup.sh` does not create the LDIF file and back up fails. [Bug 897311]

Fix: The backup process works without errors even if backup location is on another partition.

1.1.2 Software Fixes for the Identity Server

Following issues are fixed in the Identity Server:

1.1.2.1 Parameters with Logout URL are Missing

Issue: The query string parameters (used for special redirect on logout success) passed with logout URL `/nidp/app/logout` are missing. [Bug 878070]

Fix: Parameters sent with logout URL are persistent and are available in the `logoutSuccess.jsp` file.

1.1.2.2 LDAP Group List is Not Available in the Administration Console

Issue: While creating an Identity Server Role policy with **LDAP Group** as a condition, the LDAP Group list is not available in the **Value** field. [Bug 876776]

Fix: You can see the LDAP Group list in the **Value** field.

1.1.2.3 Cannot Run Post Authentication Methods in Federated Setup that Requires Multiple Prompts for User Input

Issue: In a federated setup, you cannot run post authentication methods that has multiple prompts for user input. [Bug 856573]

Fix: You can now have multiple prompts for user input.

1.1.2.4 Federation Fails if SAML 2.0 Post Response Is Signed

Issue: Federation fails if the SAML 2.0 POST response contains signature whereas the assertion does not contain signature. [Bug 886777]

Fix: To fix this issue, nidp config property SAML2_AVOID_SIGN_AND_VALIDATE_ASSERTION_TRUSTEDPROVIDERS is added to the service provider. If response is signed and assertion is not, federation is successful. For more information, see *Avoiding Assertion Signing Validation by Service Provider* in [Configuring SAML 2.0 to Sign Messages](#).

1.1.3 Software Fixes for the Access Gateway Appliance

Following issues are fixed in the Access Gateway:

1.1.3.1 Issue With NTLM-Enabled Web Server

Issue: NTLM authentication enabled web server asks the user to login each time the user accesses its resources. [Bug 867593]

Fix: The NTLM authentication enabled web server does not ask credentials each time a resource is accessed.

1.1.3.2 Issue With Protected Resources Not Matching When URL Includes Query String

Issue: If you create a protected resource with a wildcard for a specific type of file (/formfill/*.do), a matching resource accessing that URL is found if it does not include query strings. If it includes query strings, it resolves to another protected resource. [Bug 876278]

Fix: The correct protected resource is now selected even if the requested URL contains the query string parameters.

1.1.3.3 ESP Cluster Cookies Use the First Cookie Causing Validation Error

Issue: When a browser sends multiple cluster cookies, Access Manager uses the first and not the last cookie. Whereas Apache IPCQZX03 and Tomcat JSESSIONID use the last cookie for session handling. Thus, it proxies the request to the wrong ESP server. With the ESP cluster cookie, it contains reference to the first session and due to this the request is sent to the wrong ESP server. This causes a session invalidation error on the browser and the user is requested to login again.[Bug 879621]

Fix: The ESP cluster cookies now consider the last reference to the cluster cookie in the request and user is not prompted to login again.

1.1.3.4 After Upgrading to Access Manager to 4.01 HotFix AGLogout Fails with xerces Exception

Issue: After upgrading Access Manager to 4.01 HotFix 1, logging out through AGLogout results in a 500 internal error with the following message: [Bug 891906]

```
HTTP Status 500 - javax.xml.parsers.FactoryConfigurationError: Provider  
org.apache.xerces.jaxp.DocumentBuilderFactoryImpl not found
```

Fix: AGLogout succeeds without any exception.

1.1.3.5 Issue with OpenSSL TLS Protocol Downgrade Attack (CVE-2014-3511)

Issue: A flaw in the OpenSSL SSL/TLS server code causes the server to negotiate TLS 1.0 instead of higher protocol versions when the ClientHello message is badly fragmented. By modifying the client's TLS records, a man-in-the-middle attack forces you to downgrade to TLS 1.0 even if both the server and the client support a higher protocol version. [Bug 893336]

Fix: This vulnerability has been fixed by moving to OpenSSL version 1.0.1i.

1.1.3.6 Incomplete Comment Tag Causes the Access Gateway to Terminate

Issue: A protected resource that has a Form Fill login policy and the policy has **Auto Submit** enabled, causes Access Gateway to terminate because of malformed HTML code or an incomplete comment tag in the form. [Bug 865990]

Fix: The issue with the malformed HTML code is now fixed.

1.1.3.7 Web Server Load Balancing Does Not Work

Issue: When multiple back end Web servers exist, the traffic is not evenly balanced between the back end Web servers causing load balancing issues. [Bug 842496]

Fix: The load balancing issue is resolved.

1.1.3.8 The Access Gateway Does Not Forward Mangled Cookie

Issue: If you enable cookie mangling and then access a public resource, the cookie set by the application is mangled. If the user then tries to access another protected resource on the same application, the redirects cause the mangled cookie to be removed from Access Gateway and because of this, Access Gateway does not send the unmangled cookie to the application even though the incoming request from browser includes it. As the Web server sets a new cookie, Access Gateway expires the old cookie leading to session failure. [Bug 891291]

Fix: The Access Gateway does not clear mangled cookies and session continues without errors.

1.1.3.9 Identity Injection Fails to Inject Authentication Header

Issue: When the Access Gateway sends an authorization header configured in the Identity Injection policy and receives a 401 error, it is because Identity Injection injects invalid credentials. Hence, the Access Gateway does not send authorization header in the next request and impacts the basic authentication header and not any other custom headers that are also injected. [Bug 892554]

Fix: The following global advanced option is introduced to ensure that when a browser sends an authentication header, the Access Gateway Appliance overwrites it with the authentication header configured in the Identity Injection policy.

`NAGGlobalOptions OverWriteAuthHeaderWithIIData=off` [When set to off, no authentication header is sent when after a 401 unauthorized error is received].

`NAGGlobalOptions OverWriteAuthHeaderWithIIData=on` [When set to on, authentication header is sent even if after a 401 unauthorized error is received.]

1.1.3.10 URL Matching Criteria with Query Strings Results in Broken Applications after Upgrading Access Manager to 4.0

Issue: After upgrading Access Manager to 4.0, URL matching criteria with query strings results in breaking the applications that work with Access Gateway Appliance. [Bug 891548]

Fix: The protected resource matching works properly even when query string is present in the URL.

2 Upgrading to 4.0.1 HF2

Ensure that you are currently on Access Manager 4.0 Service Pack 1 or 4.0.1 HF1 before upgrading to Access Manager 4.0.1 HF2.

To upgrade Access Manager Appliance 4.0.1 HF2, use the following steps to download the AM_401_HF2.zip file that contains the Access Manager Appliance Patch Tool and the patch file :

- 1 Go to [NetIQ downloads page](#).
- 2 Under **Patches**, click **Search Patches**.
- 3 Specify AM_401_HF2.zip in the search box and download the file.
- 4 Upgrade by using the procedure described in [Upgrading Access Manager Appliance 4.0 HF* Using the Patch Process](#) in the [NetIQ Access Manager Appliance 4.0 SP1 Installation Guide](#).

3 Verifying Version Numbers

To ensure that you have the correct version of files before you upgrade to Access Manager 4.0.1 HF2, verify the version of existing Access Manager installation.

Before Upgrading:

The following procedure helps you verify the version numbers before upgrading to 4.0.1 HF2.

- 1 In the Administration Console, click **Access Manager > Auditing > Troubleshooting > Version**
- 2 Verify that the **Version** field displays the following version.

Components	4.0.1	4.0.1 HF1
All Access Manager Components	4.0.1.88	4.0.1.88 + HF1-93

After Upgrading:

The following procedure helps you verify the version number after upgrading.

- 1 In the Administration Console, click **Access Manager > Auditing > Troubleshooting > Version**
- 2 Verify that the **Version** field displays the following version:

Upgrading from 4.0.1	Upgrading from 4.0.1 HF1
4.0.1.88 + HF2 -107	4.0.1-88 + HF1-93, HF2-107

4 Contact Information

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