



SafeNet Agent for FreeRADIUS

CUSTOMER RELEASE NOTES

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Product Description

FreeRADIUS is a customizable, open-source RADIUS server that receives authentication data using the RADIUS protocol (a protocol running over IP/UDP or IP/TCP). The SafeNet Agent for FreeRADIUS is a highly secure, enterprise authentication agent that enables RADIUS clients to communicate with the SafeNet server using the RADIUS protocol.

Release Description

Release Summary – SafeNet Agent for FreeRADIUS 3.3.2

The SafeNet Agent for FreeRADIUS v3.3.2 introduces the following feature and enhancements.

Message-Authenticator

With this SAS PCE release, the agent includes the **Message-Authenticator** (Attribute 80) attribute in every RADIUS response and challenge.

After the upgrade to this version, the customers must:

1. Ensure **RADIUS clients** are configured to send the **Message-Authenticator** attribute in all requests.
2. If using an older client:
 - Configure the client to ignore the **Message-Authenticator** attribute in server responses (if supported).
 - Or
 - **Upgrade** to a RADIUS client version that fully supports this attribute.

NOTE: If the RADIUS client does not support Message-Authenticator nor can ignore the Message-Authenticator attribute sent by FreeRADIUS agent, then the authentication will stop after upgrade to this new version. Such customer should hold upgrading the agent to this version until they are on a RADIUS client that supports Message-Authenticator(Attribute 80).

Python Upgrade

Since Python 2 has reached its official end-of-life, the FreeRADIUS agent component code has now been migrated to **Python 3**.

Security Improvement

This release introduces some security improvements for the most secure version of SafeNet Agent for FreeRADIUS.

Release Summary – SafeNet Agent for FreeRADIUS 3.3.1

The SafeNet Agent for FreeRADIUS v3.3.1 introduces the following feature and resolves a customer-reported issue.

LDAP Secure

The SafeNet Agent for FreeRADIUS v3.3.1 release provides support for **LDAP Secure (LDAPS)** connection to the LDAP server.

This enables the agent to connect to the LDAP server for user authentication over a secure channel, ensuring that the communication between FreeRADIUS and the LDAP server is encrypted and safe.

Thalesdocs

The agent documentation is now online at <https://thalesdocs.com/sta/agents/freeradius/index.html>. In future versions, the documentation will only be available on Thalesdocs. PDFs will no longer be a part of the subsequent releases.

Resolved Issues

Issue	Synopsis
SAS-68180	The FreeRADIUS mount issue is now resolved and documented.

Release Summary – SafeNet Agent for FreeRADIUS 3.3.0

The SafeNet Agent for FreeRADIUS v3.3.0 introduces Podman support and resolves a customer-reported issue.

Podman

The SafeNet Agent for FreeRADIUS v3.3.0 now supports the agent deployment on the **Podman** platforms. It enables users to take advantage of its security, flexibility, and performance, along with the existing Docker compatibility.

For more details, refer to the *SafeNet FreeRADIUS Agent Install Config Guide v3.3.0*.

Added Operating System

The agent is now compatible with **Red Hat Enterprise Linux 9.4**, **CentOS 9**, and **Ubuntu 22.04**. For supported platforms, click [here](#).

Resolved Issues

Issue	Synopsis
SAS-47272	FreeRADIUS agent deployment script FreeRADIUSv3.sh does not accept spaces in AD attributes. This issue is now resolved.

Release Summary – SafeNet Agent for FreeRADIUS 3.2.1

The SafeNet Agent for FreeRADIUS v3.2.1 includes new features listed below:

Added user agent header to comply with GWAF security rules

The reversed proxy GWAF requires HTTP requests to include the User-Agent header in compliance with RFC 7231, Section 5.5.3. Necessary changes have been made in accordance with this requirement.

Added stats to RADIUS requests

RADIUS servers are deployed to capture details regarding incoming traffic. This includes information on the amount of processed traffic, the number of dropped packets, as well as the counts for duplicate and conflicting packets sent.

Release Summary – SafeNet Agent for FreeRADIUS 3.2.0

The SafeNet Agent for FreeRADIUS v3.2.0 includes new features and resolves a customer-reported issue.

FreeRADIUS Agent support for on-prem password validation.

Support for on-prem password validation using concatenated LDAP+OTP as a single field Password for the Authentication. This has been added to enhance security during authentication. Please refer *SafeNet FreeRADIUS Agent Install Config Guide*, for prerequisites and other details.

Support for Silent response in case if SafeNet Server is not reachable.

Support for a silent response when SafeNet server is not reachable, this will help customers to switch to failover/secondary SafeNet servers. Instead of authentication failure, it will show the “No response from the server”.

Please refer *SafeNet FreeRADIUS Agent Install Config Guide*, for prerequisites and other details.

Resolved Issues

Issue	Synopsis
SAS-41855	UTF8 encoding is now supported with MS-CHAPv2.

Release Summary – SafeNet Agent for FreeRADIUS 3.1.1

The SafeNet Agent for FreeRADIUS v3.1.1 resolves some customer-reported issues.

Resolved Issues

Following list the details.

Issue	Synopsis
SAS-37881	The special characters with UTF encoding are now supported in the AD password.
SAS-36432	The FreeRADIUS Agent installer now does not display the private key to its users in the system.

Release Summary – SafeNet Agent for FreeRADIUS 3.1

The SafeNet Agent for FreeRADIUS v3.1 includes a new feature and resolves a known issue.

Support for Protected Extensible Authentication Protocol

Support for Protected Extensible Authentication Protocol (PEAP) is now added for enhanced security during the authentication.

Release Summary – SafeNet Agent for FreeRADIUS 3.0

The SafeNet Agent for FreeRADIUS 3.0 is a new agent that allows to authenticate against the FreeRADIUS server version 3.0. The new agent is different in technology (it is deployed inside a docker container), and the outcome is far more robust and secure than the previous agent.

Earlier, the agent had three separate components; **FreeRADIUS Agent**, **FreeRADIUS Updater** and **FreeRADIUS Server**. All three components needed to be installed and configured for the agent solution to work.

The new SafeNet Agent for FreeRADIUS 3.0 is deployed using a simple shell script. The script, based on parameter inputs from the end user, helps in quick, hassle-free agent installation and upgrades.

Known Issues

This table provides a list of known issues as of the latest release.

Issue	Synopsis
SAS-72938	Summary: While authenticating with the agent, extra error logs displays in the Message-Authenticator string of NTRadPing Test Utility . Workaround: None, will be fixed in a future release.
SAS-46280	Summary: Few special characters (for example, ü, €) are not supported with UTF encoding. Workaround: None, will be fixed in a future release.

Compatibility

The information in this document applies to:

SafeNet Servers

- > SafeNet Authentication Service PCE/SPE 3.13 and later (SAS)
- > SafeNet Trusted Access (STA)

Supported Platforms

Docker

- Red Hat Enterprise Linux 8.3
- Red Hat Enterprise Linux 9.4
- CentOS 9
- Ubuntu 22.04

Podman

- Red Hat Enterprise Linux 8.3
- Red Hat Enterprise Linux 9.4

Supported FreeRADIUS Versions

- > FreeRADIUS server version 3.x and above

Product Documentation

The following documentation is associated with this product:

> SafeNet Agent for FreeRADIUS: Installation and Configuration Guide

We have attempted to make these documents complete, accurate, and useful, but we cannot guarantee them to be perfect. When we discover errors or omissions, or they are brought to our attention, we endeavor to correct them in succeeding releases of the product.

Support Contacts

If you encounter a problem while installing, registering, or operating this product, please make sure that you have read the documentation. If you cannot resolve the issue, contact your supplier or [Thales Group Customer Support](#).

Thales Group Customer Support operates 24 hours a day, 7 days a week. Your level of access to this service is governed by the support plan arrangements made between Thales Group and your organization. Please consult this support plan for further information about your entitlements, including the hours when telephone support is available to you.

Customer Support Portal

The Customer Support Portal, at <https://supportportal.thalesgroup.com>, is where you can find solutions for most common problems. The Customer Support Portal is a comprehensive, fully searchable database of support resources, including software and firmware downloads, release notes listing known problems and workarounds, a knowledge base, FAQs, product documentation, technical notes, and more. You can also use the portal to create and manage support cases.

NOTE: You require an account to access the Customer Support Portal. To create a new account, go to the portal and click on the **REGISTER** link.

Telephone Support

The support portal also lists telephone numbers for voice contact ([Contact Us](#)).

Email Support

You can also contact technical support by email at technical.support.DIS@thalesgroup.com.