



STORMSHIELD



STORMSHIELD NETWORK SECURITY
STORMSHIELD TERMINAL SERVER AGENT

RELEASE NOTES

Version 1

Document last updated: March 18, 2025

Reference: [sns-en-ts_agent_release_notes-v1.0.5-EA](#)



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In the documentation, Stormshield Terminal Server Agent is referred to in its short form SN TS Agent or TS Agent, and Stormshield Network Security is referred to as SNS.

This document is not exhaustive and minor changes may have been included in this version.

EA (Early Adopter) label

Minor or major versions with this label include new important features that have yet to be deployed among our clients on a large scale in a production environment. The EA label is not attached to any version over the long term and is removed once a subsequent corrective version is published.



Change log

Date	Description
March 18, 2025	New document



New TS Agent behavior

This section lists the changes made to the automatic behavior of the TS Agent when it is updated from the first available version 1 to 1.0.5 EA.

Changes introduced in version 1.0.5 EA

 [Find out more](#)

- The port range that is reserved by default for users is now 20000-49151 in any new installation of the TS Agent. The range was previously 1024-49151.
- The default value of the parameter "**ExhaustedPortAction**" is now "*pass*" for any new installation of the TS Agent. This makes it possible to allow network connections when users use all the ports that have been allocated to them.
- The TS Agent now lets applications open a port as a listening port if the port is not in the port range that is reserved for users.
- By default, the TS Agent now blocks applications that attempt to use a port from the port range that is reserved for users, unless this port is in the port ranges that have been assigned to the user in question.



New features and enhancements in TS Agent 1.0.5 EA

Windows Server 2025 compatibility

The TS Agent is now compatible with Windows Server 2025.

Port management

Script configuring ports that are reserved for system operations

A script to configure ports that are reserved for system operations is now available in your [MyStormshield](#) area. This script, which is provided by Stormshield, analyzes any ports that may be in conflict with the TS Agent, and adds them to its settings to reserve them for system operations. As such, these ports cannot be assigned to any user.

You will need to manually run the script as an administrator. You can use it immediately after the installation of the TS Agent or later to adjust its parameters, for example when installing new applications, or when there are connection issues.

For more information, refer to the section [Using script to configure ports that are reserved for system operations](#) in the technical note on *Installing and deploying the TS Agent*.

Editing the port range that is reserved by default for users

The port range that is reserved by default for users is now 20000-49151 in any new installation of the TS Agent. The range was previously 1024-49151. Stormshield recommends using the new port range, as other applications may use ports in the range 1024-19999.

When updating the TS Agent to version 1.0.5 EA, avoid keeping the existing configuration so that the new port range can be used. If you have customized the TS Agent's parameters in the registry base, you need to change them again.

If necessary, you can:

- Use the script to configure ports that are reserved for system operations, to exclude ports that are likely to be in conflict with the TS Agent, so that they are not assigned to users (`"ReservedSystemPorts"` parameter),
- Bring down the lower limit of the port range that is reserved for users, ensuring that ports from the new range are not being used by other applications (`"TotalPortsRangeLow"` parameter).

For more information, refer to the section [Identifying/editing operating parameters on the TS Agent](#) in the technical note on *Installing and deploying the TS Agent*.

Changes to parameters that block or allow applications

Several changes have been made to the TS Agent parameters that block or allow applications.



- The default value of the parameter "**ExhaustedPortAction**" is now "*pass*" for any new installation of the TS Agent. This makes it possible to allow network connections when users use all the ports that have been allocated to them.

! IMPORTANT

These connections are anonymous to the SNS firewall. Its filter policy must therefore allow anonymous network connections with source ports that are higher than or equal to the value of the TS Agent's "**EphemeralPortMin**" parameter (49152 by default). Otherwise, the firewall will block such connections.

When updating the TS Agent to version 1.0.5 EA, avoid keeping the existing configuration so that the new value of the parameter can be used. If you have customized the TS Agent's parameters in the registry base, you need to change them again.

- The TS Agent now lets applications open a port as a listening port if the port is not in the port range that is reserved for users. Furthermore, the TS Agent no longer generates events in the Windows **Event Viewer** in this case.
- By default, the TS Agent now blocks applications that attempt to use a port from the port range that is reserved for users, unless this port is in the port ranges that have been assigned to the user in question.

If an application is blocked, an event will be generated in the Windows **Event Viewer**:

Process [...] has been blocked because it tried to use a port [...] which is reserved by the driver.

This behavior can be changed by switching the value of the "**ReservedPortAction**" parameter from "*block*" to "*pass*". Changing this parameter to "*pass*" is considered advanced configuration, as this may cause issues with the assignment of ports on the host.

For more information on configuring TS Agent parameters, refer to the section [Identifying/editing operating parameters on the TS Agent](#) in the technical note on *Installing and deploying the TS Agent*.



TS Agent 1.0.5 EA bug fixes

TS Agent stability

Various bugs in the TS Agent's driver were fixed in order to improve its stability, and to fix issues with the Windows server restarting at random [BSoD].

Various bug fixes have been applied to the TS Agent service, to prevent several potential disruptions when it operates in certain network environments.

Uninstalling the TS Agent

An issue in the mechanism that uninstalls the TS Agent, which could potentially leave residual files on the Windows server, and prevent any new installation or update, has been fixed.

Before updating a TS Agent to version 1.0.5 EA, you must first uninstall version 1.0.3 or any other lower version, by running the script provided by Stormshield, and which is available in your [MyStormshield](#) area. For more information, refer to the section [Updating the TS Agent from version 1.0.3 or lower](#) in the technical note on *Installing and deploying the TS Agent*.

Event viewer

32782 events now indicate the port number that the application wished to use, instead of wrongly displaying the process name a second time.

Events that are generated by an LDAP directory user with a user name that contains spaces now indicate that spaces are not supported in user names, instead of displaying "201 parsing error". For more information, refer to the section [Specifications and limitations](#) in the technical note on *Installing and deploying the TS Agent*.

Listening on connection interfaces of the local loop

The TS Agent no longer redirects the ports of applications that listen exclusively on the connection interfaces of the local loop (*127.0.0.1* in IPv4 and *::1* in IPv6). Ports on applications that listen simultaneously on all connection interfaces will continue to be redirected.



Compatibility

For more information, refer to the section [TS Agent](#) in the *Network Security & Tools Product Life Cycle guide*.

Limitations and explanations on usage

For more information, refer to the section [Specifications and limitations](#) in the technical note on *Installing and deploying the TS Agent*.

Documentation resources

Technical documentation resources are available on the [Stormshield technical documentation](#) website. We recommend that you rely on these resources to get the best results from all features in this version.

Please refer to the Stormshield [Knowledge base](#) for specific technical information that the TAC (Technical Assistance Center) has created.



Installing this version

To update the TS Agent to version 1.0.5 EA, we recommend that you carefully follow the procedure below.

Before starting the update, ensure that you have read the following documents:

- The section [New TS Agent behavior](#) in this document,
- The section [TS Agent](#) in the *Network Security & Tools Product Life Cycle guide*,
- The section [Specifications and limitations](#) in the technical note on *Installing and deploying the TS Agent*.

Updating the TS Agent from version 1.0.3 or lower

Before updating the TS Agent to version 1.0.5 EA, you need to fully uninstall 1.0.3 or other lower versions with a script provided by Stormshield.

For more information, refer to the section [Updating the TS Agent from version 1.0.3 or lower](#) in the technical note on *Installing and deploying the TS Agent*.

Updating the TS Agent from version 1.0.5 or higher

For information on how to update the TS Agent to version 1.0.5 EA, refer to the section [Updating the TS Agent](#) in the technical note on *Installing and deploying the TS Agent*.



Previous versions of the TS Agent v1

In this section, you will find new features, resolved vulnerabilities and fixes from previous versions of the TS Agent v1.

1.0.4	Version not published
1.0.3	Bug fixes
1.0.2	New features



Version 1.0.4 not published

Version 1.0.4 of the TS Agent is not available to the public.



TS Agent 1.0.3 bug fixes

Windows server malfunction

Support reference 85577

An issue in the TS Agent's driver caused the Windows server to randomly restart (BSOD). The new version of the TS Agent fixes this issue.



Main features in TS Agent 1.0.2

TS Agent makes it possible to transparently authenticate users of the remote desktop services *Microsoft Remote Desktop Services* (RDS) and *Citrix Virtual Apps and Desktops*.

Users are authenticated through exchanges between a dedicated service on the SNS firewall and TS agents (SN TS Agent) deployed on RDS and Citrix servers.

RDS and Citrix servers use a unique IP address for all their users. With TS Agent, users can be distinctly identified: the SNS firewall identifies every user that authenticates with the server's IP address by a dedicated source network port range that the TS agent assigns to this user (network ports higher than 1024). In this way, filter rules based on the authentication of these users can be applied.

For more information on installing and configuring the TS Agent, refer to the technical note [Installing and deploying the TS Agent](#).



Contact

To contact our Stormshield Technical Assistance Center (TAC):

- <https://mystormshield.eu/>
All requests to technical support must be submitted through the incident manager in the private-access area https://mystormshield.eu, under **Technical support > Manage cases**.
- +33 (0) 9 69 329 129
In order for us to provide high-quality service, you are advised to use this communication method only to follow up on incidents that have been created earlier on https://mystormshield.eu.



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