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Last Revised
November 8, 2018
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Terminal Services (TS) Agent 8.0 Release Information

Revision Date: October 15, 2018

Review important information about Palo Alto Networks Terminal Services (TS) agent software, including new features introduced, workarounds for open issues, and issues that are addressed in TS agent 8.0 releases.

To ensure that you are viewing the most current version of these release notes, always defer to the web version; do not store or rely on PDFs to be current after you download them.

› Features Introduced in TS Agent 8.0
› System Requirements
› Operating System (OS) Compatibility
› Known Issues in TS Agent 8.0
› Terminal Services (TS) Agent 8.0 Addressed Issues
› Getting Help
Features Introduced in TS Agent 8.0

- Features Introduced in TS Agent 8.0.1
- Features Introduced in TS Agent 8.0.0

For new User-ID™ features in the PAN-OS® 8.1 release, see the PAN-OS 8.0 Release Notes.

Features Introduced in TS Agent 8.0.1

The following feature is introduced in TS agent 8.0.1.

<table>
<thead>
<tr>
<th>New Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Configure Terminal Services Agent with your Enterprise Signed PKI Certificate</strong></td>
<td>You can now assign custom certificate to the Terminal Services agent from your enterprise PKI. This allows the firewall to confirm the identity of the Terminal Services agent before accepting information from the agent. You deploy a custom certificate on the Terminal Services agent and a certificate profile on the firewall, containing the CA of the certificate, to establish a unique trust chain between the two devices.</td>
</tr>
</tbody>
</table>

Features Introduced in TS Agent 8.0.0

The following feature is introduced in TS agent 8.0.0.

<table>
<thead>
<tr>
<th>New Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Centralized Deployment and Management of User-ID and TS Agents</strong></td>
<td>You can now use endpoint management software such as Microsoft SCCM to remotely install, configure, and upgrade multiple Windows-based User-ID agents and Terminal Services (TS) agents in a single operation. Using endpoint management software streamlines your workflow by enabling you to deploy and configure numerous User-ID and TS agents through an automated process instead of using a manual login session for each agent.</td>
</tr>
</tbody>
</table>
System Requirements

The system where you install Terminal Services (TS) agent 8.0 has the following minimum requirements:

- **CPU**—4 cores
- **Hard disk space**—10MB
- **Memory**—4GB RAM
Operating System (OS) Compatibility

The Terminal Services (TS) agent is compatible with PAN-OS® 8.0 and earlier PAN-OS releases that Palo Alto Networks® still supports. To see where you can install TS agents, refer to the Terminal Services (TS) agent compatibility information in the Palo Alto Networks Compatibility Matrix.
Known Issues in TS Agent 8.0

There are no known issues in the TS agent 8.0 release.
Terminal Services (TS) Agent 8.0 Addressed Issues

The following tables list the issues that are fixed in TS agent 8.0 releases. For new features, associated software versions, known issues, or changes in default behavior, see Terminal Services (TS) Agent 8.0 Release Information.

- TS Agent 8.0.12 Addressed Issues
- TS Agent 8.0.11 Addressed Issues
- TS Agent 8.0.10 Addressed Issues
- TS Agent 8.0.9 Addressed Issues
- TS Agent 8.0.8 Addressed Issues
- TS Agent 8.0.7 Addressed Issues
- TS Agent 8.0.6 Addressed Issues
- TS Agent 8.0.5 Addressed Issues
- TS Agent 8.0.4 Addressed Issues
- TS Agent 8.0.3 Addressed Issues
- TS Agent 8.0.2 Addressed Issues
- TS Agent 8.0.1 Addressed Issues
- TS Agent 8.0.0 Addressed Issues

For recent updates to addressed issues for a given PAN-OS release, refer to live.paloaltonetworks.com/t5/Articles/Critical-Issues-Addressed-in-PAN-OS-Releases/tap/52882.

TS Agent 8.0.12 Addressed Issues

This TS agent 8.0 release includes no updates or addressed issues. The TS agent 8.0.12 release was provided to maintain parity with User-ID agent 8.0 releases.

TS Agent 8.0.11 Addressed Issues

This TS agent 8.0 release includes no updates or addressed issues. The TS agent 8.0.11 release was provided to maintain parity with User-ID agent 8.0 releases.

TS Agent 8.0.10 Addressed Issues

<table>
<thead>
<tr>
<th>Issue</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WINAGENT-376</td>
<td>Fixed an issue where firewalls running a PAN-OS 6.1 release could not connect to Windows-based TS agent 8.0.9 or earlier releases because those versions of the agent do not allow TLSv1.0 connections. With this fix, Windows-based TS agent 8.0.10 and later releases allow TLSv1.0 connections with firewalls running PAN-OS 6.1.</td>
</tr>
</tbody>
</table>
WINAGENT-326 | Fixed an issue where installing and configuring the TS agent on a Windows server resulted in a BSOD due to a reserved port range conflict.

**TS Agent 8.0.9 Addressed Issues**
This TS agent 8.0 release includes no updates or addressed issues. The TS agent 8.0.9 release was provided to maintain parity with User-ID agent 8.0 releases.

**TS Agent 8.0.8 Addressed Issues**
This TS agent 8.0 release includes no updates or addressed issues. The TS agent 8.0.8 release was provided to maintain parity with User-ID agent 8.0 releases.

**TS Agent 8.0.7 Addressed Issues**
This TS agent 8.0 release includes no updates or addressed issues. The TS agent 8.0.7 release was provided to maintain parity with User-ID agent 8.0 releases.

**TS Agent 8.0.6 Addressed Issues**
This TS agent 8.0 release includes no updates or addressed issues. The TS agent 8.0.6 release was provided to maintain parity with User-ID agent 8.0 releases.

**TS Agent 8.0.5 Addressed Issues**
This TS agent 8.0 release includes no updates or addressed issues. The TS agent 8.0.5 release was provided to maintain parity with User-ID agent 8.0 releases.

**TS Agent 8.0.4 Addressed Issues**
<table>
<thead>
<tr>
<th>Issue</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WINAGENT-34</td>
<td>Fixed an issue where the TS agent allowed weak ciphers for SSL/TLS connections. With this fix, the TS agent allows only the following ciphers for SSL/TLS connections:</td>
</tr>
<tr>
<td></td>
<td>• ECDHE-ECDSA-AES256-GCM-SHA384</td>
</tr>
<tr>
<td></td>
<td>• ECDHE-RSA-AES256-GCM-SHA384</td>
</tr>
<tr>
<td></td>
<td>• ECDHE-RSA-AES128-GCM-SHA256</td>
</tr>
<tr>
<td></td>
<td>• ECDHE-ECDSA-AES256-SHA384</td>
</tr>
<tr>
<td></td>
<td>• ECDHE-ECDSA-AES128-SHA256</td>
</tr>
<tr>
<td></td>
<td>• DHE-RSA-AES256-SHA256</td>
</tr>
<tr>
<td></td>
<td>• DHE-RSA-AES128-SHA256</td>
</tr>
<tr>
<td></td>
<td>• ECDHE-RSA-AES256-SHA</td>
</tr>
<tr>
<td></td>
<td>• ECDHE-ECDSA-AES256-SHA</td>
</tr>
<tr>
<td></td>
<td>• ECDHE-RSA-AES128-SHA</td>
</tr>
<tr>
<td></td>
<td>• ECDHE-ECDSA-AES128-SHA</td>
</tr>
</tbody>
</table>
## TS Agent 8.0.3 Addressed Issues

This TS agent 8.0 release includes no updates or addressed issues. The TS agent 8.0.3 release was provided to maintain parity with User-ID agent 8.0 releases.

<table>
<thead>
<tr>
<th>Issue</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• DHE-RSA-AES256-SHA</td>
</tr>
<tr>
<td></td>
<td>• DHE-RSA-AES128-SHA</td>
</tr>
<tr>
<td></td>
<td>• AES256-SHA256</td>
</tr>
<tr>
<td></td>
<td>• AES256-SHA</td>
</tr>
<tr>
<td></td>
<td>• AES128-SHA256</td>
</tr>
<tr>
<td></td>
<td>• AES128-SHA</td>
</tr>
</tbody>
</table>

## TS Agent 8.0.2 Addressed Issues

### WINAGENT-195

Fixed an issue where defining Reserved Source Ports on the TS agent caused a STOP error on the Windows server that hosted the agent after a user logged in to the server.

<table>
<thead>
<tr>
<th>Issue</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WINAGENT-195</td>
<td>Fixed an issue where defining Reserved Source Ports on the TS agent caused a STOP error on the Windows server that hosted the agent after a user logged in to the server.</td>
</tr>
</tbody>
</table>

## TS Agent 8.0.1 Addressed Issues

### WINAGENT-43

A security-related fix was made to prevent session information disclosure due to insecure permissions (CVE-2017-6356 / PAN-SA-2017-0006).

<table>
<thead>
<tr>
<th>Issue</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WINAGENT-43</td>
<td>A security-related fix was made to prevent session information disclosure due to insecure permissions (CVE-2017-6356 / PAN-SA-2017-0006).</td>
</tr>
</tbody>
</table>

## TS Agent 8.0.0 Addressed Issues

This initial TS agent 8.0 release has no updates or addressed issues. The TS agent 8.0.0 release was provided to maintain parity with User-ID agent 8.0 releases.
Getting Help

The following topics provide information on where to find more about our products and how to request support:

> Related Documentation
> Requesting Support
Related Documentation

Refer to the following PAN-OS® 8.0 documentation on the Technical Documentation portal at https://docs.paloaltonetworks.com for more information about the Palo Alto Networks® Next-Generation Security Platform:

- **PAN-OS 8.0 Administrator's Guide**—Provides the concepts and solutions to get the most out of your Palo Alto Networks next-generation firewalls. This includes taking you through the initial configuration and basic set up on your Palo Alto Networks firewalls.
- **PAN-OS 8.0 Web Interface Reference Guide**—Describes how to administer the Palo Alto Networks firewall using the device's web interface. The guide is intended for system administrators responsible for deploying, operating, and maintaining the firewall.
- **Palo Alto Networks Compatibility Matrix**—Provides operating system and other compatibility information for Palo Alto Networks next-generation firewalls, appliances, and agents, including on which operating systems you can install the TS agent.
Requesting Support

For contacting support, for information on support programs, to manage your account or devices, or to open a support case, refer to https://www.paloaltonetworks.com/support/tabs/overview.html.

For the most current PAN-OS® and Panorama™ 8.0 release notes, go to https://docs.paloaltonetworks.com/pan-os/8-0/pan-os-release-notes.html.

To provide feedback on the documentation, please write to us at: documentation@paloaltonetworks.com.