



Check Point
SOFTWARE TECHNOLOGIES LTD.

VPN-1 Power VSX

R65 HFA 20 Release Notes

More Information

The latest version of this document is at:

http://supportcontent.checkpoint.com/documentation_download?ID=10363

For additional technical information about Check Point visit Check Point Support Center

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Feedback

Check Point is engaged in a continuous effort to improve its documentation. Please help us by sending your comments to us ([mailto:cp_techpub_feedback@checkpoint.com?subject=Feedback on VPN-1 Power VSX XX_TP_COVER_VERSION_XX Release Notes](mailto:cp_techpub_feedback@checkpoint.com?subject=Feedback%20on%20VPN-1%20Power%20VSX%20TP_COVER_VERSION_XX%20Release%20Notes)).

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Introduction

Thank you for updating your Check Point products with VSX NGX R65 HFA 20 (Hotfix Accumulator). This HFA is a recommended update that resolves various issues and contains improvements for VPN-1 Power VSX and other Check Point products on a variety of platforms.

Please read this document carefully prior to installing this HFA. We also recommend that you refer to the appropriate Check Point user documentation and release notes, which contain hardware requirements, software requirements, and version recommendations.

What's New

- Improved VSX functionality with Advanced Dynamic Routing Suite, IPS, ClusterXL, and LDAP
- Improved VSX on IPSO and Crossbeam platforms
- Fixed memory leak and improved memory handling
- Improved handling of skinny protocol messages
- Fixed logging issues

Supported Versions, Platforms, and Builds

Supported VSX Versions

This HFA can be installed on top of the Check Point VPN-1 VSX NGX R65 versions shown in the following table. To verify the build installed, run:

```
fw ver -k.
```

| Platform | Build Number | Output of <code>fw ver -k</code> |
|-------------------------------------|--------------|--|
| VPN-1 VSX NGX R65 on SecurePlatform | XXXXXXXXXX | This is Check Point VPN-1 VSX NGX R65 - Build 517 kernel: NGX R65 - Build 517 |
| VPN-1 VSX NGX R65 on SecurePlatform | XXXXXXXXXX | This is Check Point VPN-1 VSX NGX R65 - Build 550 kernel: NGX R65 - Build 550 |
| VPN-1 VSX NGX R65 on SecurePlatform | XXXXXXXXXX | This is Check Point VPN-1 VSX NGX R65, Hotfix 005 - Build 004 kernel: NGX R65, Hotfix 005 - Build 004 |
| VPN-1 VSX NGX R65 on VSX-1 | XXXXXXXXXX | This is Check Point VPN-1 VSX NGX R65 - Build 008 kernel: NGX R65 - Build 008 |
| VPN-1 VSX NGX R65 on IPSO | XXXXXXXXXX | This is Check Point VPN-1 VSX NGX R65, Hotfix 002 - Build 011 kernel: NGX R65, Hotfix 002 - Build 011 |

Supported Platforms

The following operating systems and hardware platforms are supported for HFA installation:

| Platform | Version |
|----------------|------------------|
| SecurePlatform | 2.4.21-21cpsmp |
| IPSO | 5.0 |
| VSX-1 | 3070, 9070, 9090 |
| Crossbeam | XOS 8.1+ |

Included Builds

To verify that you have the HFA described in this document:

From the HFA file you downloaded, open `take_number.conf` and make sure it contains: `take_29`

Take 29 of VSX NGX R65 HFA 20consists of the following builds:

| Component | Build Number | Verify Command and Output |
|------------------|--------------|--|
| Firewall | 884610037 | The output of fw ver -k should be similar to: This is Check Point VPN-1 VSX NGX R65 HFA_20, Hotfix XXX - Build XXX kernel: NGX R65 HFA_20, Hotfix XXX- Build XXX |
| SecurePlatform | 884610028 | The output of splat_ver should be similar to: ecu hfa XXXXXXXXX |
| Performance Pack | 884610004 | The output of sim ver -k should be similar to: This is Check Point Performance Pack version: NGX R65 HFA_20, Hotfix XXX- Build 004 Kernel version: NGX R65 HFA_20, Hotfix XXX- Build XXX |
| Dynamic Routing | 884610006 | The output of gated_ver is a list of information including: XXXXXXXXXX |

Installation

Install this HFA on supported VSX gateways.



Note - The Full Connectivity Upgrade Procedure (FCU) is not supported for VSX.

To install the HFA:

1. Enter the Expert mode.
2. Download the HFA package (.tgz file) to the VSX Gateway or cluster member.
 - For SecurePlatform: Check_Point_VSX NGX_R65_HFA_20.linux.tgz (http://supportcenter.checkpoint.com/file_download?id=10345)
 - For IPSO: Check_Point_VSX NGX_R65_HFA_20.ipso.tgz (http://supportcenter.checkpoint.com/file_download?id=10344)
3. Create a temporary directory /opt/hfa
4. Extract the package to this directory using the command:
tar -zxvf <package name>.
5. Run the installation script: ./UnixInstallScript.
6. Enter 'y' to stop all Check Point process and continue with the installation. When the installation process completes, a status screen shows the successfully installed components.

```

*****
Package Name                               Status
-----
VPN-1 VSX NGX R65 HFA 20                 Succeeded

Performance Pack VSX NGX R65 HFA 20      Succeeded

Advanced Routing VSX NGX R65 HFA 20      Succeeded

SecurePlatform VSX NGX R65 HFA 20        Succeeded

*****

Installation Program Completed Successfully.
Do you wish to reboot your machine (y/n) ?

```



Note - On IPSO platforms, only the VPN-1 VSX NGX R65 HFA 20 component is installed.

7. Enter 'y' to to reboot.
8. Repeat the above steps for each member in a cluster environment.

Uninstallation



Important - Do not run the uninstall command twice in a row. This may cause unexpected behavior. If you need to run the uninstall command again, reboot the machine first.

To uninstall the HFA:

1. From the VSX Gateway or cluster member command line, run:
/opt/CPUninstall/VSX NGX_R65_HFA_20/UnixInstallScript -u
2. To prompts appear. At both prompts, enter 'y' to continue.
3. Once the uninstallation process completes, the following status screen appears.

```

*****
Package Name                               Status
-----
VPN-1 VSX NGX R65 HFA 20                 Succeeded

Performance Pack VSX NGX R65 HFA 20      Succeeded

Advanced Routing VSX NGX R65 HFA 20      Succeeded

*****

Installation Program Completed Successfully.
Do you wish to reboot your machine (y/n) ?

```



Note - On IPSO platforms, only the VPN-1 VSX NGX R65 HFA 20 component is uninstalled.

4. Enter 'y' to to reboot.
5. Repeat the above steps for each member in a cluster environment.



Note - If you reboot the machine directly from the /opt/CPUninstall/VSX NGX_R65_HFA_20 directory, an error message may appear. You can safely ignore this message.

Resolved Issues

VSX

| ID | Description |
|----------|---|
| 00532888 | Improved cpsnmpd stability while querying OID 1.3.6.1.4.1.2620.1.16.22 |
| 00536610 | In ClusterXL, the number of invalid sync transmission requests has been significantly reduced. |
| 00538274 | Improved link aggregation in specific third party environments so that sync requests are not retransmitted unnecessarily. To enable this feature, set the kernel parameter <code>fwba_skip_first_retrans_req</code> to 1 . |
| 00532838 | Gateway now sends logs or saves them locally, without a limit to the number of events. |
| 00532928 | Resource Control stability improvements. |
| 00532955 | Improved memory allocation. |
| 00532983 | When enabled via <code>cpconfig</code> , the cpsnmpd daemon now starts automatically upon boot or start of CP services. |
| 00542334 | The SCCP protocol allowed messages list is now updated so that the firewall can recognize more messages. Fixes error: "Unknown SCCP message type". |
| 00542340 | It is now possible to configure the maximum Skinny/SCCP message size. Skinny/SCCP messages that exceed this size are dropped. |
| 00516998 | Fixed object handling. |
| 00521274 | Crossbeam now properly handles forwarded packets within the same chassis. |
| 00521466 | Improved use of LDAP locking features. This fixes issue where user cannot log in. |
| 00526101 | RPC mount is now enabled for Virtual Systems. |
| 00527572 | Fixed memory issue that causes the gateway to not answer ICMP requests. |
| 00529188 | Enlarged the dictionary size and deleted old strings to resolve policy installation issues. |
| 00532769 | Enhanced the synchronization process to improve stability. |
| 00532771 | The cpd process no longer terminates during certain licensing operations. |
| 00532848 | Improved stability in VSX gateway state synchronization by fixing multiple memory related issues. |
| 00532850 | Improved memory handling for VSX with IPS enabled. Resolves the "memory already freed" issue. |
| 00532951 | Fixed error that caused the following message to appear: <code>unregister_netdevice: waiting for wrp<id> to become free. Usage count = x</code> |
| 00533047 | Advanced Dynamic Routing Suite for Virtual Routers now propagates the correct route. |

| ID | Description |
|----------|---|
| 00533088 | In a cluster environment with Advanced Dynamic Routing Suite, multicast traffic between members after failover is now handled properly. |
| 00533090 | Improved the monitor link state for proper functionality on a VSX environment with more than 2 members. |
| 00542319 | Enhanced the ability to accept SCCP packets using reserved fields to support Cisco Unified Communications Manager 7. |
| 00542327 | Fixed the verify SCCP header content protection. |