
VSI TCP/IP for OpenVMS Version 10.6 Cover Letter

DO-DVTCLR-01A

August 2019

Dear VSI OpenVMS Customer,

VMS Software, Inc. (VSI) is pleased to introduce our new networking stack, VSI TCP/IP for OpenVMS Version 10.6, which is based on Process Software's MultiNet for OpenVMS product. Owned and built by VSI, this new networking stack is supported on VSI OpenVMS Integrity Version 8.4-2L1. VSI Engineering plans to release new versions of the VSI TCP/IP stack approximately every 6-9 months with continued improvements to product quality and additional feature content.

One aspect of release planning is identification of obsolete features and services that are no longer used by modern TCP/IP stacks. To that end, in VSI TCP/IP for OpenVMS V10.6 we have removed or deprecated a number of commands and services. Please refer to the *VSI TCP/IP for OpenVMS Version 10.6 Release Notes* for descriptions of these items which include:

- Interfaces no longer supported
- Commands no longer supported
- Commands and services not present

Intended Audience

This document is intended for all users of VSI TCP/IP V10.6. Read this document, as well as those in the following list, before you install this product on your VSI OpenVMS system:

- *VSI TCP/IP for OpenVMS Version 10.6 Release Notes*
- *VSI TCP/IP for OpenVMS Version 10.6 Installation, Upgrade, and Quick Start Guide*
- *VSI TCP/IP for OpenVMS Version 10.6 User's Guide*
- *VSI TCP/IP for OpenVMS Version 10.6 Software Product Description (SPD)*

Document Structure

This document contains the following sections:

- *Kit Contents*: Describes files contained in the VSI TCP/IP for OpenVMS V10.6 ZIPEXE file.
- *VSI TCP/IP for OpenVMS Version 10.6 Features*: Describes product highlights and features.
- *VSI TCP/IP for OpenVMS Version 10.6 Enhancements*: Describes enhancements found in this version of the networking stack.
- *VSI TCP/IP for OpenVMS Version 10.6 Documentation*: Provides an overview of the product's documentation. All manuals are available in PDF format.

Kit Contents

The VSI TCP/IP for OpenVMS Version 10.6 kit is provided as a ZIPEXE file comprised of these files:

Table 1: Kit Contents

File	Description
VSI-I64VMS-VSI_TCPIP-V1006--1 .PCSI\$COMPRESSED	Signed PCSI installation file for the VSI TCP/IP Version 10.6 kit
VSI-I64VMS-VSI_TCPIP-V1006--1 .PCSI\$COMPRESSED_VNC	A manifest file that contains data about the type of signature generated for the VSI TCP/IP PCSI kit and a certificate chain containing the public key used to decrypt the signature. The manifest file is used by the VSI VMS_NOTARY program to validate the content of the original target file.
VSI-I64VMS-VMS842L1I_CLUCONFIG- V0100—4.PCSI\$COMPRESSED	Signed PCSI installation file for the VSI OpenVMS Cluster Configuration patch kit.
VSI-I64VMS-VMS842L1I_CLUCONFIG- V0100—4.PCSI\$COMPRESSED_VNC	A manifest file that contains data about the type of signature generated for the VSI OpenVMS Cluster Configuration PCSI kit and a certificate chain containing the public key used to decrypt the signature. The manifest file is used by the VSI VMS_NOTARY program to validate the content of the original target file.
Documentation Files	All VSI TCP/IP for OpenVMS Version 10.6 manuals are available in PDF format. Please refer to the section <i>VSI TCP/IP for OpenVMS Documentation</i> for the complete list of documents.

VSI TCP/IP for OpenVMS Version 10.6 Features

VSI TCP/IP for OpenVMS V10.6 includes the following features:

- VSI TCP/IP for OpenVMS is a standalone product, installable and supported on VSI's OpenVMS Integrity V8.4-2L1 operating system.
- VSI TCP/IP for OpenVMS product usage is enabled by the VSI OpenVMS Integrity BOE or HA-OE license; no additional license is required.
- VSI TCP/IP for OpenVMS has been engineered to co-exist on an HPE Integrity server system disk that contains other network stacks.
- When other network stacks are present on the system disk, VSI TCP/IP for OpenVMS software allows you to select the stack you prefer, switch to your chosen stack, and then switch back again, if desired. The command procedure SYS\$MANAGER:IP\$SET_STACK allows you to switch between VSI TCP/IP, TCP/IP Services, MultiNet, or TCPware without having to modify your system startup procedure each time. It does not install or remove any product on your system.
- VSI TCP/IP's SSH provides modern ciphers through the inclusion of the Suite B-compliant implementation of the Secure Shell Transport Layer Protocol and the Secure Shell Authentication Protocol.
- Users who are familiar with the MultiNet for OpenVMS networking stack will be able to set up and configure VSI TCP/IP for OpenVMS using tools that look and feel like those provided by MultiNet.

VSI TCP/IP for OpenVMS Version 10.6 Enhancements

In Version 10.6, VSI has enhanced VSI TCP/IP for OpenVMS in the following ways:

- IP\$EXAMPLES contain updated programs that demonstrate aspects of network programming that users might find helpful.
- If you are a MultiNet user, you can import and convert your existing MultiNet configuration files to be used by VSI TCP/IP. Conversion can be done during or after installation of VSI TCP/IP and all instances of MultiNet configuration files will be copied and converted for use. When you start VSI TCP/IP after conversion, your networking environment will be the same as when you were running MultiNet. Refer to the *VSI TCP/IP for OpenVMS Version 10.6 Installation, Upgrade, and Quick Start Guide* for additional details.

- SNMP supports interrogation of MIBs. Please refer to the *VSI TCP/IP for OpenVMS Version 10.6 Release Notes* for a list of MIBs that are supported. Support for additional MIBs will be added in a future release of VSI TCP/IP.

- SSH supports the following new key exchange (KEX) algorithms:

```
diffie-hellman-group14-sha256
diffie-hellman-group-exchange-sha1
diffie-hellman-group-exchange-sha256
```

- SSH Port Forwarding and OpenVMS Captive Users

SSH implements a user group, known internally by SSH, which designates the users of captive accounts. This group, IP\$SSH_CAPTIVE_USERS, gives the system administrator a method by which to specify captive users in various aspects of SSH configuration without requiring definition and management of OpenVMS rights identifiers. Additionally, the supplied SSH configuration template, SSHD2_CONFIG.TEMPLATE, disables port forwarding for captive users by default.

To enable the SSH port forwarding feature for captive users, remove the line "DenyTcpForwardingForGroups" from the SSHD2_CONFIG.CONF, which can be found in SYS\$SPECIFIC:[IP.CONFIG.SSH2].

- VSI TCP/IP for OpenVMS V10.6 has been updated to BIND 9 version 9.11.8 which contains CVE fixes. Additional information on the contents of BIND 9.11.8 may be found at: <https://ftp.isc.org/isc/bind9/9.11.8/RELEASE-NOTES-bind-9.11.8.html>

Please refer to the *VSI TCP/IP for OpenVMS Version 10.6 Release Notes*, as well as other VSI TCP/IP documents, for more information about enhancements and other features of VSI TCP/IP for OpenVMS V10.6.

VSI TCP/IP for OpenVMS Version 10.6 Documentation

The VSI TCP/IP for OpenVMS documentation set is comprised of the following manuals, which are provided in PDF format for easy viewing and printing. They are not available in printed format.

The following VSI TCP/IP for OpenVMS V10.6 documents have been substantially revised for Version 10.6 and are included in the distribution kit.

Table 2: VSI TCP/IP V10.6 Documentation Included in the V10.6 Distribution Kit

Part Number	Title	Description
DO-DVTCLR-01A	<i>VSI TCP/IP for OpenVMS Version 10.6 Cover Letter</i>	This document provides an introduction to VSI TCP/IP for OpenVMS.
DO-DVTNFR-00A	<i>VSI TCP/IP for OpenVMS Version 10.6 Release Notes</i>	This document contains configuration pre-requisites, product and documentation release notes, and descriptions of new product features.
DO-DVTQSG-01A	<i>VSI TCP/IP for OpenVMS Version 10.6 Installation, Upgrade, and Quick Start Guide</i>	This document describes how to install and initially configure VSI TCP/IP for OpenVMS.
DO-DVTSPQ-01A	<i>VSI TCP/IP for OpenVMS Version 10.6 Software Product Description (SPD)</i>	This document describes VSI TCP/IP for OpenVMS features and capabilities, as well as licensing and ordering information.

The balance of VSI TCP/IP for OpenVMS V10.6 documentation has been minimally revised and is not included in the distribution kit. You can find these documents on the [VSI website](#) under **Products -> Documentation -> Layered Products**.

Table 3: VSI TCP/IP V10.6 Documentation Available On the VSI Website

DO-DVTIA1-01B	<i>VSI TCP/IP for OpenVMS Version 10.6 Administrator's Guide, Volume I</i>	This document introduces basic TCP/IP concepts and describes how to configure and administrate VSI TCP/IP for OpenVMS.
DO-DVTIA2-01B	<i>VSI TCP/IP for OpenVMS Version 10.6 Administrator's Guide, Volume II</i>	This document provides advanced configuration instructions.
DO-DVTADR-01B	<i>VSI TCP/IP for OpenVMS Version 10.6 Administrator's Reference</i>	This reference manual describes administration commands.
DO-DVTMLD-01B	<i>VSI TCP/IP for OpenVMS Version 10.6 Messages, Logicals, and DECnet Applications</i>	This document describes system messages, status codes, error codes, and DECnet application services.
DO-DVTPRG-01B	<i>VSI TCP/IP for OpenVMS Version 10.6 Programmer's Reference</i>	This document provides a programming tutorial, examples, and in-depth information on routines.
DO-DVTUSG-01B	<i>VSI TCP/IP for OpenVMS Version 10.6 User's Guide</i>	This document describes VSI TCP/IP for OpenVMS user commands. It includes easy-to-follow instructions for beginning users and command pages for advanced users.

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The VSI OpenVMS documentation set is available on CD.