

Subversion for OpenVMS I64

October 2017

*** BETA RELEASE ***

1. Introduction

Thank you for your interest in this port of Subversion (SVN) to OpenVMS. The current release of SVN for OpenVMS is based on the SVN 1.8.13 Open Source distribution.

Apache Subversion (see <https://subversion.apache.org/>) is an Open Source software versioning and revision control system that can be used by software development teams (and individual developers) to maintain current and historical versions of project files such as source code and documentation.

This OpenVMS port of Subversion includes all major components, including both client and server tools.

2. Requirements

The kit you are receiving has been compiled and built using the operating system and compiler versions listed below. While it is highly likely that you will have no problems installing and using the kit on systems running higher versions of the products listed, we cannot say for sure that you will be so lucky if your system is running older versions.

- VSI OpenVMS 8.4-1H1 or higher
- The software must be installed (and used) on an ODS-5 enabled disk
- HP TCP/IP Services V5.7 or higher

It has not been verified whether the kit works with the MultiNet TCP/IP stack, but there is a good chance that it will.

In addition to the above requirements, it is assumed that the reader has a good knowledge of OpenVMS and of software development in the OpenVMS environment.

3. Recommended reading

It is recommended that users unfamiliar with Subversion and its operation review the various links and documentation available at <https://subversion.apache.org/>.

4. Installing the kit

The kit is provided as an OpenVMS PCSI kit (VSI-I64VMS-SVN-V0108-13A-1.PCSI) that can be installed by a suitably privileged user using the following command:

```
$ PRODUCT INSTALL SVN
```

The installation will then proceed as follows (output may differ slightly from that shown):

```
Performing product kit validation of signed kits ...
```

```
The following product has been selected:
```

Do you want to continue? [YES]

Configuration phase starting ...

You will be asked to choose options, if any, for each selected product and for any products that may be installed to satisfy software dependency requirements.

Configuring VSI I64VMS SVN V1.8-13A: Subversion for OpenVMS is based on Apache Subversion Version 1.8-13

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* This product does not have any configuration options.

Execution phase starting ...

The following product will be installed to destination:

VSI I64VMS SVN V1.8-13A DISK\$I64SYS:[VMS\$COMMON.]

Portion done: 0%...90%...100%

The following product has been installed:

VSI I64VMS SVN V1.8-13A Layered Product

VSI I64VMS SVN V1.8-13A: Subversion for OpenVMS is based on Apache Subversion Version 1.8-13

Post-installation tasks are required.

To start the Subversion runtime at system boot time, add the following lines to

SYS\$MANAGER:SYSTARTUP_VMS.COM:

```
$ file := SYS$STARTUP:SVN$STARTUP.COM
$ if f$search("'"file'") .nes. "" then @'file'
```

To shutdown Subversion at system shutdown time, add the following lines to

SYS\$MANAGER:SYSHUTDWN.COM:

```
$ file := SYS$STARTUP:SVN$SHUTDOWN.COM
$ if f$search("'"file'") .nes. "" then @'file'
```

4.1. **Post-installation steps**

After the installation has successfully completed, include the commands displayed at the end of the installation procedure into `SYSTARTUP_VMS.COM` to ensure that the logical names required in order for users to use the software are defined system-wide at start-up.

Once the software has been installed and the startup procedure has been executed, users can execute the command procedure `SVN$ROOT:[BIN]SVN$DEFINE_COMMANDS.COM` to set up foreign commands for many of the more commonly used Subversion utilities.

4.2. *Installing in an alternative location*

By default the software will be installed in `SYS$SYSDEVICE:[VMS$COMMON]`. If you wish to install the software in an alternative location this can be achieved using the `/DESTINATION` qualifier with the `PRODUCT INSTALL` command to specify the desired location; however it is important to note that an additional manual step will then be required to complete the installation. Specifically, when an alternative destination is specified, the start-up and shutdown procedures (`SVN$STARTUP.COM` and `SVN$SHUTDOWN.COM`) will be placed into a subdirectory `[.SYS$STARTUP]` residing under the specified destination directory. If you wish to run these files from your standard `SYS$STARTUP` directory they will need to be copied from the destination subdirectory into your systems `SYS$STARTUP` directory.

5. Known issues and limitations

The following list describes the known issues and limitations with this release of Subversion for OpenVMS. These issues will be addressed in future releases of the software.

- UNIX-style syntax must be used when specifying path names for files and directories. As a consequence of this point, it may be necessary in some situations to specify command line arguments within double quotes.
- The software must be installed (and used) on an ODS-5 enabled disk
- All files must be stream-lf format
- Problems have been observed when checking out very large repositories (many thousands of files). If the checkout dies before completion, it is usually possible to carry on from where the checkout stopped by running `"svn cleanup"` to clean up any locks left after the crash followed by `"svn update"`. This process can be repeated until the entire repository has been checked out.
- The `"svn status"` command may in some situations show duplicate file names. This is innocuous (and will be addressed in future releases).
- Problems have been observed in mixed cluster environments when `SYS$COMMON` is defined to contain multiple equivalence names; however this is more likely to be a cluster configuration problem or an issue with the OpenVMS C RTL as opposed to an issue with the Subversion. This issue is being investigated.
- Connecting to a Subversion server through a SSH tunnel is not currently supported. It is hoped that this function will be supported in future releases.
- The supplied kit has been built with a moderate level of debug logging enabled. This is intended to help VMS Software Inc. diagnose any problems that might be encountered, and may be removed from future releases.
- Problems have been observed with `"svn import"` when importing files into a remote repository via a secure (SSL/TLS) connection.
- The Administrators Toolkit has not been fully tested at this time and it is possible that problems may be encountered with some of these utilities.
- Problems have been observed using `"svn diff"` and `"svn patch"` to add new files to a repository. These issues are being investigated and will be addressed in a future release.