

# VIP Software Requirements

(NWSVIPv1.0 deployment)

## COTS SOFTWARE & OS TOOLS USED BY VIP SOFTWARE

[www.speechworks.com](http://www.speechworks.com): Speechify TTS (1.2)

Speechify is the text-to-speech (TTS) software used in NWSVIPv1.0. All documentation, installation procedures, and source code are provided on the Speechify CD rom.

### Install programs:

*Speechify-Engine-1.1.i386.rpm*

*Speechify-Vox-en.us-female-8khz-1.1.i386.rpm*

*Speechify-Vox-en.us-male-8khz-1.1.i386.rpm*

*Speechify-Client-1.2-1.i386.rpm*

### Ordered command line install procedure executed by user root:

*rpm -install Speechify-Engine-1.1-1.i386.rpm*

*rpm -install Speechify-Vox-en.us-female-8khz-1.1-1.i386.rpm*

*rpm -install Speechify-Vox-en.us-male-8khz-1.1-1.i386.rpm*

[www.tcltk.com](http://www.tcltk.com): Snack Module

Snack is a TCL/TK module use to play, record, & manipulated audio through TCL/TK scripts. This module is specifically used in the VIP audio player launched from the main VIP interface. The rpm files on the VIP development machine at /home/vip/VIPsoftware/Utilities/

### Install program:

*Snack-2.1.1-1.tk83.i386.rpm*

### Ordered command line install procedure executed by root user:

*rpm -install Snack-2.1.1-1.tk83.i386.rpm*

[www.spies.com](http://www.spies.com): SoX

Sound eXchange (SoX) software is application used to convert TTS converted audio (16khz) into the required 10khz expected by CRS. Also used by VIP is the play binary to play audio directly to the user. Specifically by the listen option through the user dictionary gui. Source code for SoX was obtained and compiled on the development machine. Source code can be found at /home/vip/VIPsoftware/SourceCode/sox-12.17.1

Binary executable:

SoX

play

Ordered command line install procedure executed by root user:

```
cd /home/vip/VIPsoftware/src/sox-12.17.1/
```

```
./configure
```

```
make
```

```
make install
```

[www.perl.com](http://www.perl.com): Perl

A perl interpreter does come with the linux OS, however a copy also exist on the development machine at /home/vip/VIPsoftware/Utilities.

Compressed source code:

*Perl5.005\_03.tar.gz*

**Note: it might be a good idea to uncompress this file in it's own and separate directory.**

Ordered command line install procedure executed by root user:

```
gunzip Perl5.005_03.tar.gz
```

```
tar -xvf Perl5.005_03.tar
```

*Follow instructions in INSTALL file found after untar. (To numerous to list)*

[www.tcltk.com](http://www.tcltk.com): TCL

TCL is a graphical user interface scripting language. All VIP user interfaces were written with a TCL base. Although the linux OS comes with a TCL/TK interpreter a copy also exists on the development machine at /home/vip/VIPsoftware/Utilities.

Install program:

*TCL-8.3.3-1.i386.rpm*

Ordered command line install procedure executed by root user:

```
rpm --install TCL-8.3.3-1.i386.rpm
```

[www.cpan.org](http://www.cpan.org): Net.pm

Net.pm is a perl module used by DataTransfer.pl to FTP products. A copy is exists on the development machine at /home/vip/VIPsoftware/Utilities. The compressed libnet file below

contains more modules than used by VIP. So the install instruction single out one way to assure the Net.pm module is properly placed for use by the VIP software.

Compressed library data:

*Libnet-1.0703.tar.gz*

**Note: it might be a good idea to uncompress this file in it's own and separate directory.**

Ordered command line install procedure executed by root user:

*gunzip Libnet-1.0703.tar.gz*

*tar -xvf Libnet-1.0703.tar*

*cp libnet-1.0703/Net /usr/lib/perl5/5.6.0/i386-linux/ -R*

[www.netscape.com](http://www.netscape.com): Netscape Browser

The linux OS does comes with a copy of Netscape, however if missing it can be obtained at the above web address. This application is necessary since VIP help pages are in HTML format and executed by the VIP user interface through netscape

Binary file & location:

*/usr/bin/netscape*

[www.redhat.com](http://www.redhat.com): System Utilities

VIP does take advantage of different OS system utilities. Below is a list.

System utilities used:

*/usr/sbin/sendmail*

*/usr/X11R6/bin/xterm*

*/usr/bin/tail*