CAN-8 Installation Instructions

These instructions are provided to CAN-8 dealers and computer technicians who would be required to install the CAN-8 system in a new installation. Familiarity with Appendix B of the CAN-8 manual prior to starting the install may be helpful.

These instructions are not suitable for users performing upgrades or other maintenance of the CAN-8 system on an already installed system. Following these instructions for an already operating CAN-8 site may result in loss of data, loss of user datafiles, or loss of the capability to continue running the site.

For the purposes of this document, the word **Server** refers to the computer that is running the **CAN-8 Server software**. The word **Workstation** refers to stations that are used by students, instructors and others to administer the CAN-8 system. All file paths are given as **C:** and may need to have the drive letter altered to match the requirements of the site.

These instructions are intended as a basic guide to installing the CAN-8 system which when followed will result in a running CAN-8 site. Various computer installations may have procedures, limitations, or restrictions that may prevent the completion of the installation as described by these instructions. These sites and the person(s) performing the installation should be capable of adapting these installation instructions to suit the specific requirements of the site.

Pre-Installation

In order that the system be installed quickly and easily, the following should be checked or organized on the server **before** the installation of the CAN-8 software begins:

- Server computer should have a **static** (unchanging) IP address such that it may always be found at the same IP address on the network.
- It is recommended that the server have a valid DNS name that is meaningful from all computers that are expected to access CAN-8 on the server.
- The server is reachable via IP traffic from any station expected to connect to it. This is easily tested using the **ping** program with the servers IP address or DNS name.
- If you are using a serial port with the CAN-8 authorization device you must ensure that there is no other software running on the server that is using the serial port the device will be plugged into. You should also check that the port is enabled in the BIOS and that the operating system of the server recognizes that the selected port is present.
- Any disk partitioning, network connections or other administrative tasks be done on the server **prior** to the installation of CAN-8.
- If the server is expected to be reached from stations outside a firewall, the firewall must make UDP ports 17180-17190 available from the external side of the firewall to the server. If the firewall is also doing address translation (NAT), the firewall must be setup to redirect a valid external address to the internal address of the server, or redirect the above port range on the external address of the firewall to the CAN-8 server.

The workstations that will attach to the CAN-8 server should have the following checked prior to installation of the CAN-8 software:

- The workstations have a sound card of suitable quality that may be used with CAN-8. Testing the sound card using the Microsoft Sound Recorder program available on all windows machines is

advised if a problem with the sound card is suspected.
- Be sure that the microphone input of the local sound card is selected as the recording source. This is set by right clicking on the speaker symbol in the systray and selecting **Open Volume Controls**. From the volume controls dialog, select File-->Properties and then **Recording** to select and adjust the input source.
- Each workstation should have a browser loaded and have it set as the default browser. This will permit the station to display the online CAN-8 manual.

Server Installation

The **administrator** user under windows must be used to install and run the CAN-8 server. Using any other user (unless it is an administrator equivalent) will not result in a functional system.

WARNING: DO NOT RUN THE CAN8INST.EXE PROGRAM ON A SERVER THAT ALREADY HAS A RUNNING CAN-8 SYSTEM. IT WILL IRREPARABLY DAMAGE THE EXISTING DATABASES OF USERS AND MENUS.

To install the CAN-8 software on the server machine, first download the CAN8INST.EXE self installing file into any directory on the server. Run the CAN8INST.EXE program by either clicking on it, or typing its name on the command line.

The software will require you to agree to the licensing contract and when you read it, click **Next** and select a directory to install the server software into if the default is not suitable.

In most cases, the drive letter may have to be changed. It is recommended that the **SVSYS** directory name be preserved so that should support be required later, the technical person can find the software.

Select **Install** and the system will prompt you to copy the license file into the system if you require one. You must manually copy and rename the file from the provided media into the file:

C:\SVSYS\ID\LICENSE.DAT

The file is usually provided with a name that represents the license number that matches the CAN-8 authorization device. The authorization device should be plugged into any serial port available on the server and screwed in firmly.

The final step is to create a desktop shortcut to point to the CAN-8 server software. Simply create a new shortcut and name it **CAN-8 Server** and provide a path of:

C:\SVSYS\NTSERVE.EXE

To start the server, simply doubleclick on the CAN-8 server icon. If you wish it to autostart when the administrator signs on then it may be placed in the **Startup** group.

In some cases, it is preferable to run the CAN-8 server software as a service so that no user has to sign on to start the software. This is done using the Microsoft SRVANY package that is available on the **Windows NT resource kit** and also Microsoft's website.

Do not share the **C:\SVSYS** directory on the server. The CAN-8 server software accesses the files directly and does not require any file sharing. File sharing can compromise the confidentiality of the student data.

Workstation Installation

The workstation software may be installed in a number of different ways. It may be installed on a central server (not always the same as the CAN-8 server) and made accessable to the workstations. The software may also be installed on each client workstation. It is recommended wherever possible that it be shared from a central server rather than stored on each station as it makes updating the software easier when required.

The following instructions will describe how to install it on each station. The next section will explain what has to be done to share the software from a central server.

On the workstation, download the SVMSETUP.EXE program from the website to any directory. Run the program by doubleclicking on it or typing its name from the command line.

The software will require you to agree to the licensing contract and when you read it, click **Next**. On the next screen, click **Install** and the software will be installed and a desktop icon will be created for you. If the desktop Icon is not created, you may create one manually, by creating a new shortcut and give it the name **Start CAN-8** and the path would be:

C:\CAN8\W16MGR.EXE
This completes the software installation.

SV.INI file configuration

On each workstation, there is a file that controls the default behavior of the CAN-8 client software. This file is to be found as:

Operating System	Location of File
Windows 95/98/ME	**C:\WINDOWS\SV.INI**
Windows NT/2000/XP	**C:\WINNT\SV.INI**

This file must be edited using a text only editor such as Notepad. Using a word processor or other editor that does not save the file in a text format will corrupt the file.

The SV.INI file **must** be edited to match the IP address of the server at a bare minimum. The SV.INI file has two sections, a **[general]** section and a **[server]** section.

All options in the [general] section of the SV.INI file consist of a **name** followed by an **equal sign** followed by the value for that option. The options are described as follows:

Name	Value	Description
files	0	Do NOT use local disk as cache.
	1	Use local disk as cache.
wave	0	Do not use windows soundboard.
	1	Use windows soundboard
filter	0	Disable input filter.

	1	Enable input filter.
version	**Sounds Virtual Windows 1.0**	Defines version of software - do not change
media_browser	Path to local browser	Selects the browser to use for **Internet** menu types. Pathname in 8.3 format only.
media_player	Path to media player	Selects a media player to use for **Media** menu types. Pathname in 8.3 format only.

In the [server] section of the SV.INI file, the only entry that is recognized is the first one after the [server] header. This line consists of the server DNS name or IP address followed by an equal sign. This is the default server that shows in the **Server:** box on the CAN-8 client login screen.

There does not need to be any characters after the equal sign. If desired, one of the following may be selected:

Character	Meaning
*	Do not show server selection at login time
+	Show server selection as greyed out at login time to prevent users from changing it.

A sample SV.INI file (similar to the one that is automatically installed) is shown below:

```
[general]
version=sounds virtual windows 1.0
filter=1
files=1
wave=1

[server]
demo.sounds.com=
```

Sharing the CAN-8 client from a central server

To provide ease of management and updating of the CAN-8 software, it is advisable to store one copy of the software on a central server that is shared and available to all the workstations. The server it is stored on does not need to be the same machine as the CAN-8 server. As well, the client software should **not** be stored in the same directory as the CAN-8 system files on the CAN-8 server and shared.

The method to accomplish this will vary from site to site, but in general it involves making a copy of the entire **C:\CAN8** directory as installed on a workstation (including subdirectories) on to a server machine and making that directory shared and **read-only** to the client stations.

The pathname of the shortcut used on the workstations to start the client software will have to be modified to reflect the location of the files and the server that the CAN-8 client software now resides on. As well, the SV.INI file must still exist on **all** client machines and contain the changes as were detailed in the previous section.

The SV.INI file does not change between revisions of the software so it is not likely that it will have to be updated very often.

Installation of CAN-8 Client via Disk Image (ghosting)

In order to keep workstation in a running state, many sites create a master image of a workstation disk and periodically update or replace the contents of the local disks at the workstations with the master image.

The CAN-8 system need only be installed in the regular way on the master image and have the SV.INI file configured for the server address. Once stored in the master image, the CAN-8 software is deployed by the usual means that the site uses to transfer the master image to all workstations.

Microsoft is a registered tradmark of Microsoft Corp.