

## dScope Test File Installer

These notes are to accompany the files:

Install Test Files.vbs and  
Install List.txt

The file "Install Test Files.vbs" is a Visual Basic Script for copying scripts, configurations, wavetable files etc. to the correct folders in order to make the installation and updating of tests easier for dScope users - throughout the remainder of this document this file will be referred to as the "Installer". The file "Install List.txt" is a text file with specific formatting used to instruct the Installer where to place the files needed for the installation. Throughout the rest of this document it will be referred to as the Install List.

### Requirements

A PC with the dScope software installed is essential. The dScope does not have to be running, but some components of the dScope software are used in this Installer.

### Overview of the Installer Script

The basic principle of operation is that all the required files for a particular test are zipped together into an archive along with the Installer and Install List. When the zip file is unzipped into a (preferably empty) folder, the user simply double clicks on the "Install Test Files.vbs" file and all the Installer will refer to the Install List and copy all the files into the required folders.

The following rules are followed by the Installer:

- if the Install List doesn't exist or has an unexpected name (it must be called "Install List.txt"), the user will be notified and the installation will fail
- if the folder listed in the Install List doesn't exist on the destination computer, the script will try to create it automatically. This will fail if the path to the folder doesn't exist.
- if the source file listed in the Install List does not exist in the source folder, an error message will be generated, but the installation will continue to attempt to process the remaining files.
- if the source file doesn't exist in the destination folder, the file will simply be copied over
- if the source file exists in the destination folder and is older than the existing file, it will be backed up and replaced
- if the source file exists in the destination folder and is the same size and has the same modification date, it will be skipped.
- if the source file exists in the destination folder and is newer than the source file, the user will be prompted to choose between the following options:

- 1) keep the existing file (default)
- 2) back up the existing file and copy the source file over into the destination folder anyway.

When the process has completed, a message will indicate whether the installation was successful or not.

A report text file called "report.txt" is also generated and placed in the source folder which indicates in clear language what each step was in the installation of the files.

### Anti-virus and the Installer script

The Installer script makes use of the Windows Scripting Host and the File System Object to determine whether files exist, what their modification dates and sizes are and to copy and back up files. Since this is

a process that is also open to abuse by virus writers, this step is likely to be halted by any competent anti-virus software. This is a good thing as it indicates that the Anti-virus is doing its job. The user should satisfy themselves that the script is not malicious (it is easy to open the script in any text editor and view what it is doing) before instructing the Anti-virus software to allow the script to execute. If in doubt, it is possible to use the Install List to place the files in the correct folders manually.

### **The Install List**

The Install List is a simple text file that follows the following conventions:

Any line that begins with a double quote mark (") is regarded as a comment and is skipped.

Any line that is blank is skipped

Any line that begins with a square bracket ([) is regarded as a folder name

If the folder name does not contain a colon (:) it is assumed to be a path that is relative to the dScope folder. This path is normally c:\program files\prism sound\dScope Series III, but it is read from the registry by the script. If the folder name does contain a colon, it is taken to be an absolute path and is used directly.

All other lines are expected to be file names to be copied to the folder listed above them.

An example of the format of an Install List is shown below:

```
"This is a dScope III Test File Installer List
"The data below is the list of files to be installed
"and the folders where they belong

"Test Name:  Test file
"Version:   1.0

[c:\temp\MP3 Files]
MP3 Quick Test 1_5s.mp3
MP3 Quick Test 2s.mp3
MP3 Quick Test 2_5s.mp3
MP3 Quick Test 3s.mp3
MP3 Quick Test 4s.mp3
MP3 Quick Test 5s.mp3
1kHz 0dBFS Set-Up File.MP3

[c:\temp]
MP3 Player Quick Test Data.xls

[configurations]
MP3 Player Quick Test.dsc

[scripts/automation]
MP3 Player Quick Test.dss
```

### **How the Installer processes the Install List**

The Installer simply reads each line of the Install List one at a time in sequence. If it is a comment or is blank it ignores it. If it is a folder it sets this as the current destination folder. If the line is a file name, it looks for that file in the source folder and copies it to the current destination folder using the rules outlined above.

Hint: since the path to a folder must exist before the folder can be created, it may be necessary sometimes to build the path up line by line in the Install List. For example, if you wished to create the folder "c:\temp\mp3 files\256kbps" but the computer doesn't even have a c:\temp folder, you would put folder lines in the Install List for each step one after the other in order to build the path, eg.

```
[c:\temp]  
[c:\temp\MP3 Files]  
[c:\temp\MP3 Files\256kbps]
```

If files need to be put in the intermediate folders, they can be placed between the lines above. It is simply necessary to make sure that the path is built up in the correct order.

### **The Report File**

As the Installer runs, it logs each action it performs to the file "Report.txt" in the source folder. It can be opened in any text editor to see what the Installer program did.

### **The Installer and Registry access**

The Installer script reads the Registry only once in order to retrieve the path to the dScope software. The path that it retrieves in this way is checked to see that it exists. If this fails, the installation will abort as it will not be possible to copy files to the appropriate folder. Anti-Virus software may object to Registry access in this way even though no data is written to the Registry and no values are changed.