

## Administrator's Overview

The Reference Logger (LogRefs) for MicroStation V8 is an administration tool that writes a list of reference files attached to the current model. It expands configuration variables (CfgVars) found in reference attachment paths, so you can see the full path used to attach a given file. For example, suppose a file is attached using this syntax:

```
MS_RFDIR: reference1.dgn
```

LogRefs expands the CfgVar to show the full path, something like:

```
C:\Program Files\Bentley\Workspace\Projects\Examples\dgn\reference1.dgn
```

If a reference file is attached with a configuration file prefix (e.g. `MS_RFDIR: filename.dgn`) the prefix is expanded to the folder where the file is located. If a reference is attached with no prefix, then LogRefs searches the paths defined by `MS_RFDIR` to find the file.

(e.g. `C:\Program Files\Bentley\Workspace\Projects\Examples\dgn\`)

## Installation Notes

LogRefs is VBA code supplied in project file `LogRefs.mvba`, which you should copy to a folder specified by MicroStation's configuration variable `MS_VBASEARCHDIRECTORIES`. In a default MicroStation installation, this could be:

```
C:\Program Files\Bentley\Workspace\System\vba\
```

Other files should be copied to the same folder:

<code>reference2csv.xsl</code>	(converts XML to CSV format)
<code>reference2html.xsl</code>	(converts XML to HTML format)
<code>reference.css</code>	(defines colours and fonts for HTML)

To run this utility, open the MicroStation key-in window and type:

```
vba run [LogRefs]modLogReferencePaths.Main
```

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## Notes for VBA Developers

LogRefs illustrates some non-intuitive aspects of VBA programming for MicroStation.

- 1 Use of `mdlFileFind` to locate files in paths defined by configuration variables
- 2 Use of the Microsoft XML (MSXML4) library to generate an XML document, and subsequently transform it to another format (CSV and HTML)

The source code for LogRefs is in these files:

```
clsReportGenerator.cls  
modLogReferencePaths.bas
```

The project references two Microsoft libraries:

MSXML4	(delivered with MicroStation V8.1 and later)
Scripting Runtime	(delivered with various Microsoft products)