# XREF.DLL

This document gives a brief overview of how to use MYRIAD's Xref library.

## Purpose:

XREF.DLL is a library that allows MYRIAD to locate externally referenced files when loading a drawing.

This is a type of "plug-in" library in that if an XREF.DLL exists in MYRIAD's directory, MYRIAD will automatically load and use it – regardless of whether or not MYRIAD is running an integration.

## Getting Started

The best way to get started with writing your own XREF.DLL is to modify the sample project included in your MYRIAD directory (e.g.C:\Program Files\Myriad\Intgclt\Xref\).

The code used in the sample project is C++ and uses MFC. The project loads a text file called *srchpath.txt* and uses the contained list of paths to search for externally referenced files (xrefs). This project is for example purposes only. In order to implement your own functionality, you can remove the sample functionality (clean the project) by following these steps:

1. Delete the *srchpath.txt* file
2. Remove the "BOOL LoadSearchPaths(LPCSTR filename);" public member function from the CXrefApp class
3. Remove the "CStringList m_SearchPaths;" private member data from the CXrefApp class
4. Remove the content of the implementations of CXrefApp::Init() and CXrefApp::DeInit()

To complete the creation of your own XREF.DLL, you need to fill in your own content for the member functions just removed.

Following is a description of each function:

## BOOL CXrefApp::Init(void)

*Parameters*:
> None

*Returns:*
> TRUE if the library is prepared to continue.
> FALSE if you want MYRIAD to unload the library and continue unassisted.

*Remarks:*
> This function exists in case any initialization or startup steps exist that the library needs to perform before finding externally referenced files.

## void CXrefApp::DeInit(void)

*Parameters*:
> None

**Remarks:**

This function exists in case there are any cleanup or shutdown steps that the library needs to perform prior to unloading.


## BOOL CXrefApp::GetXref(LPCSTR LocalFile,LPCSTR xref, char *Answer, int Answersize)

**Parameters**:

| Name | Description | Note |
|------|-------------|------|
| LocalFile | The path and filename of the file wanting the xref. | Ignore this parameter if the xref is an .ini or a .dat file as these files have no parent file, causing the string to be empty or invalid. In addition to xrefs, MYRIAD uses this function for calling .ini, .dat and font files. |
| Xref | Externally referenced file to find | This is the exact string specified in the parent file and can be a full path or just a file name. |
| Answer | A character buffer supplied by the calling routine. | If you find the externally referenced file, write its full path into this buffer. |
| Answersize | Size, in bytes, of the buffer pointed to by Answer. | Do not exceed referenced byte size |


**Returns:**

TRUE if you find the desired file and want MYRIAD to use it.
FALSE if either you did not find the file or you are not interested in finding the type of file.


**Remarks:**

It is a good idea to analyze the LocalFile string and the xref string to determine if you want to take the time to look for the file specified. Use caution, as sometimes these strings are empty.