

How to install and use a UFL

UFLs are User Function Libraries that provide more functions to use in your Formula Editor.

Brief steps

Here are the brief steps for installing and using a UFL:

Once-only actions on each machine that creates a report using a UFL or views a report using a UFL:

Close down Crystal Reports. Place the *ufl*.dll into the Crystal Reports application folder.

Register the .dll as an administrator.

To use a UFL: In Crystal, you will see the functions from the UFL under "Additional Functions" in the Formula Editor.

Detailed steps

Here are the more detailed steps for installing and using a UFL.

1. Close down Crystal Reports
 - 1.1. Close any programs that use the CR runtime such as cViewMANAGER or or Web services running in the background such as cViewSERVER.
2. Extract all files from the .zip file
3. Place the *ufl*.dll file (eg CRUFLGrid.dll) into the Crystal Reports application folder.
 - 3.1. This is the folder where the Crystal Reports run-time is stored.
 - 3.2. The folder varies depending on your version of Crystal Reports.
 - 3.3. Most versions will work with the DLL in the Windows\Crystal Folder.
 - Crystal Reports 14 (CR2011) – c:\Program Files\Common Files\Business Objects\3.0\bin
 - Crystal Reports 12 (CR2008) – c:\Program Files\Common Files\Business Objects\3.0\bin or c:\Program Files\Business Objects\BusinessObjects Enterprise 12.0\win32_x86
 - Crystal Reports 11 R2 (XI R2) - c:\Program Files\Business Objects\common\3.5\bin
 - Crystal Reports 11 (XI)– c:\Program Files\Common Files\Business Objects\3.0\bin
 - Crystal Reports.Net 10.2 -c:\Program Files\Common Files\Business Objects\2.7\Bin
 - Crystal Reports 10 – c:\Program Files\Common Files\Crystal Decisions\2.5\bin
 - Crystal Reports 9 – c:\Program Files\Common Files\Crystal Decisions\2.0\bin
 - Crystal Reports for Visual Studio 2003 –
 - c:\Program Files\Common Files\Crystal Decisions\1.1\bin
 - Crystal Reports.Net 1.0 - c:\Program Files\Common Files\Crystal Decisions\1.0\bin
 - Crystal Reports version 8.5 – c:\Windows\Crystal \
 - Crystal Reports version 8.0 and earlier - c:\Program Files\Seagate Software\Shared (or c:\WinNT\Crystal if you are running NT 4.0)
 - 3.4. If you have multiple versions of Crystal installed you will discover that a registered UFL in one version is available for all versions.
4. Register the .dll as an administrator
 - 4.1. For example
 - RegSvr32 " c:\Program Files\Chelsea Technologies\Grid UFL\CRUFLGrid.dll"
 - 4.2. Use the folder name where you have installed the dll.
 - 4.3. The best way to do this varies with your operating system
 - 4.4. The normal method is Start menu / Run command
 - 4.5. If you are running a 64 bit version of Windows such as Windows Vista 64 or Windows XP 64 bit, you may need to look in c:\Program Files (x86) rather than the c:\Program Files folder.

- 4.6. If you are on Windows 7, Windows Vista or later, you must use use elevated permissions to register the dll
- 4.6.1. We cannot use the normal method of Start menu / Run command due to security restrictions in Windows 7 and Vista.
- 4.6.2. Click on the Start button / All Programs / Accessories / Command Prompt / (right click) / Run as administrator /
5. In Crystal Reports, you will find the new functions in your Crystal Reports / Formula Editor / Functions / Additional Functions /
- 5.1. Where exactly, depends on your version of Crystal.
- Crystal Reports v12 (CR 2008): / Formula Editor / Additional Functions /COM and .NET UFLs (u2l2com.dll)
 - Crystal Reports v11 (CR XI): / Formula Editor / Additional Functions /Visual Basic UFLs (u2lcom.dll)
 - Crystal Reports v10: / Formula Editor / Additional Functions /Visual Basic UFLs (u2lcom.dll)
 - Crystal Reports v9: / Formula Editor / Additional Functions /Visual Basic UFLs (u2lcom.dll)
 - Crystal Reports v8.5: / Formula Editor / Additional Functions /
- 5.2. If you cannot see these folders under "Additional Functions" that usually means you have not registered the dll, or that Crystal was open when you did, or that you did not register as administrator for the later operating systems.
6. All UFL's work best if they are evaluated "WhilePrintingRecords"
7. Troubleshoot
- 7.1. If you have not installed the UFL on your machine, you will get a message like this

