**Radiation Review Build Instructions**

**Prerequisites**:

**Radiation Review COM libraries**

1. **VS C++ 2010/2013 with current SP**
2. Source folders from git[hub] required:
3. IRS\_DEVCOMMON – <your work area path>\IRS\_DEVCOMMON
4. IRS\_DEV\_PLOT\_LIB – – <your work area path>\IRS\_DEV\_PLOT\_LIB
5. IRS\_DEV\_B2R1 – – <your work area path>\IRS\_DEV\_B2R1
6. Rad\_Coms – – <your work area path>\Rad\_Coms
7. The COM and DCOM objects required to build the main program RAD.exe executable are found in Rad\_Coms. The Visual C++ dev configuration uses the object in Rad\_Coms. It can also use the objects in the test folder system described under the Test section.

**Radiation Review main program (RAD.exe)**

**Items 2 and 3 above, plus**

1. **MSXML installation (usually c:\program files\msxml 6.0)**
2. **Visual Studio 6 with SP6**
3. **Install 2,3,4,5 in Windows XP VMWare image for best results.**

**BUILDING the dlls and exe**

**Build RAD**

Using VS C++ 6, open the Radiation Review workspace at IRS\_DEV\_B2R1\B2R1\_IRS.dsw

Clean the RAD project

Build RAD debug or release, using the batch build or the appropriate menu selections

The release RAD.exe is built in DEV\_B2R1\RAD\Release

The debug RAD.exe is built in DEV\_B2R1\RAD\Debug

Manually copy the executable to your runtime location (usually c:\irs\rad)

**Build the COMS**

Using VS C++ 2010/13, open the VS 2010/13 solution file at IRS\_DEV\_B2R1\RAD COMs.sln

Use the batch build command (select either the debug or release configurations on the list) and hit clean.

Next, hit the rebuild all on the batch build command.

Note: When first building rad files, you may receive an error that CoVifmImport.dll is not present. This has to do with build order. Just build again.

**Test**

When all files are built, copy the object under test (rad.exe, debug rad.exe, belong in c:\irs\rad), the COMs belong in \irs\comlibs). Start Rad Review by double-clicking the rad.exe file in c:\irs\rad

On an initialized system Radiation Review will copy all the databases and configuration to a new folder named c:\general. Shut down Radiation Review and restart it.

**Test folder configuration**

The IRS folder \IRS\_DEV\_B2R1\Standardized Rad Build (unzip to c drive) contains and example installation

* 1. Data files – found at c:\irs\rad
     1. Default config folder
     2. Default data folder
  2. Import data files – found at c:\irs\comlibs
     1. Import folder

Note: These are default data and ini files to copy to a newly configured facility.

* 1. Configuration files
     1. C:\irs\irs.ini
     2. C:\irs\inspec.ini
     3. C:\irs\rad\rad.ini
     4. C:\irs\rad\radrunning.ini
  2. LANL libraries for build in c:\irs\comlibs
     1. CoIrsLogger.dll
        1. CommonErrorMessages.ini
        2. Coirslogger.ini
     2. CoRemoteLogManager.exe
        1. CoRemoteLogManager.ini
     3. CoFacilityMgr.exe
        1. AdminFacMgr.bin
        2. FacilityConfig.mdb
     4. CoStatusInfo.dll
  3. Crypto library files in c:\irs\rad\ and c:\irs\comlibs
     1. Cl32.dll
     2. CheckSignature.dll
  4. Batch files to register/unregister components are in c:\irs\comlibs

**Note:**  Windows 7 SP1 broke MSADO and MSJET interfaces. There is now a fix, but this adds to frustration in building the Code. Was able to build on virtual XP machine using VS2008/VS6 this time around. 11.20.2014