Neil Wilson Maintenance Accomplishments – January 2014

II RiverWare Software Maintenance

Bug Fixes (not associated with new development)

As part of an effort to review old bugs, the following bugs were evaluated and closed:

956 – Callbacks for slot name change

2548 – Dispatch slots for water quality solving

2653 – Architecture for adding methods to controllers

Integrate Oracle 12 into Development Environment

Rebuilding of the HDB Server with Visual Studio 2010, done as part of the MRM Ensemble task, required the use of Oracle 12 Client libraries and dlls. These needed to be integrated into the RiverWare development process. The libraries and dlls from the development machine used for the ensemble work were tarred and zipped to create the 64-bit package for the win-config process that allows these to be downloaded to other 64 bit machines. Oracle 12 Client had to be installed on a 32 bit machine to create the 32-bit package for the win-config process. The win-config script was updated to include the new Oracle packages. The new libraries and dlls were downloaded to the overnight build machines, and developers updated their individual machines. New Oracle dlls were made available for incorporation into the RiverWare snapshot generation process.

CADSWES HDB Test Database

Connectivity to the HDB Oracle database was not working when tested in January. Debugging led to the discovery that a restart of the listener on January 5th caused a change to the service name of the database (the name had been changed months earlier, but did not take effect until the restart). Connect strings for clients connecting to the database had to be updated with the new service name.

Client/Server Port to Qt4

During testing of the MRM ensemble work, it was noticed that the HDB server is getting spurious commands across the socket from the RiverWare client even though RiverWare is not sending any commands. The commands appear to be the last command that the server sent being reflected back periodically across the socket to the server. This behavior looks to have started with the port of the client/server code to Qt4, which involved significant changes to the socket implementation. Preliminary debugging and testing did not uncover any fixes to the problem, so the issue was filed as a bug to be addressed before the next release (5448 – Phantom commands to HDB Server).