



M4 Status Update Meeting: May 21, 2009

Location: Kennewick Office

Attendees: John Tenney, Don Warf, Alan Brower, Darren Chase, Troy Humphrey, Scott Livingston & Jenn Nighbor

Absent: None

Recorded by: Jenn Nighbor

M4 Status Update Meeting

- Review M4 and show the clustering features, talk about where we are at and where we need to be to get a Beta out there.
- Revisit how that data transfer will work.

The clustering is completed and the UI is completed by a little raw. Would like your guys feedback before I finish polishing it up.

Would like a list of enhancements from the Kennewick team, with priority attached to each enhancement.

Will test out the simple default case of SbyC of every tag you get send a signal to the gate and record to the M4 database. Using a 64 bit test environment and see how it goes.

Have a few little clean-ups to finish but you will be installing Version 1.0.0.8 to test out.

Kennewick team to look at this version and John to look at the SbyC in a 64 bit test environment.

Need to get a 64 bit box for the Kennewick office. John to get a spec of his machine to the Kennewick office.

We will have two versions of M4, 32 bit and 64 bit. 64 bit is for the SbyC sites and everyone else can use the 32 bit.

Troy to be involved in SbyC testing and Scott to be more focused on initial M4 testing.

Initial Testing of M4:

- We don't need to do a lot of performance testing this go around.
- This version is running SQL Server Express and John would like to move toward SQL Compact.
- Compact is easier to maintain and is file based.

Will we need a 64 bit machine at Rapid River?

There is a standard or baseline to let us know when we need to shift to a 64 bit machine.

Kennewick team will replicate John's testing on the wheel to verify the numbers are the same.

John mentioned that it is not a lot of work to create a 32 bit and 64 bit prototype machines.

The key that makes M4 more complex is the site configuration management.

NOTE: When you first install on a brand new system, you will see an error, this is a bug that John will need to fix.

- Reviewed the M4 directory.
- Reviewed the M4.exe program (just the dashboard)
 - Impossible to open and run 2 sessions of M4.
 - Indicator ball on the lower right of the screen.
 - Gray means not running
 - Green we are running
 - Red there is an alert you need to look at
 - M4Notification.exe will not launch on the initial install it will get housed in the start-up menu.
 - M4 will launch much quicker now that it is running as a service.
 - The real heart of M4 is the monitoring service.
 - Have the ability to control one machine from the other machine.
 - By default you will start in Local Operations – this provides immediate feedback.
 - M4 will not recognize if transceiver was left in standby.
 - You have control over what message alerts you want to receive.
 - Tools – Options
 - Role = PTAGIS Tech (Kennewick Team)

How do I get the monitoring service to automatically start? - Need to go in and mark that option.

- Every unique piece of data you collect is uniquely gathered and uniquely labeled; therefore, therefore there is no overwriting of files.
- With the database, there is a time stamp data type that is time zone aware.
- You can put whatever time zone you would like, the system will know what time zone you are in and make the necessary changes to enter in the Pacific Time Zone equivalent.
- Email Alerts – Tools
 - This is where you set-up your preferences.
 - You can do multiple addresses separated with a comma.
 - General errors you might want to know about.
 - You will receive one email with all the different alerts & alarms.
 - This will provide instant feedback to the Kennewick team which will allow them to address issues in a timely fashion.
 - Will need to set-up SMTP as Vista boxes have this shut-off by default.
 - Once you have the settings the way you want them, shoot off a test email to verify.
 - Will need to think about the interval for the various alerts. (Possible to set-up multiple settings that are person specific along with multiple priorities)
 - This is such a powerful tool for us that we will probably have some revisions for the future.
 - Talk to Joel to see if this will be a Spam issue.
- Send Device Commands
 - Have the ability to send one command to all the transceivers.
 - Can insert a specific marker.

- Reporting – Can run at site, group or individual levels.
 - Diagnostic Report
 - Noise Report
 - Tag Detection Report
 - Reader Status Report
 - Alarm Report
 - Think about the big picture on what would be cool and what would you like to see

Have you run any tests to see if the report generation impacts data collection? - NO

Is there an import function for tagging files? - YES

How do you manually push a file? – I haven't set that up yet.

PHTTP uploader to be installed with M4.

** Would like the data wizard to pull out buffered data and put it into a file.

Remote command to set the clock – could M4 does this automatically?

- Clusters
 - Make sure to check of the event log
 - Thinking about taking the event log out of M4 because Vista has a really great utility with things that I can't write.
 - Use the cluster server role to differentiate which machine is the primary (PC1) vs. secondary (PC2).
 - Clustering is SQL Server Express until John can finish up testing with SQL Compact.
 - Heartbeat Interval - how many intervals they send between each other to say "I'm alive, no I'm alive"
 - Response Failure Threshold – outlines how many missed heartbeat intervals before it is declared dead. Only time you will want failover is when you are doing SbyC.
 - Check Point Interval – how often it is going to sync the data.
 - Start up period – this is key because you want to give both systems time to boot.
 - Validate – click this and it verifies that the configurations are the same on PC2.

Add refresh button.

- Topology versioning makes clustering a bit more challenging.
- Cluster → Actions → Clustered Monitor - Start and stop the cluster from this menu.
- Cluster History – provides the starts and stops
- If there is a network failure the machine goes to passive.
 - We will need to test this to ensure that the fish are being diverted.
- Cluster Tasks
 - Failover – Primary going back to secondary.
 - Failback – Going back to primary.
 - Patch Data
 - Refresh View
- Cluster Status - If something doesn't look right, hit the refresh

When you click on the stop Cluster, send up a note to confirm that action.

How do you want to track communication from Scott to John?

- For right now, just call me if you need help working through something.
- For possible additions just track those in a document, word, excel, whatever works for you.