



M4 Beta/SxC Meeting: October 4, 2007 09:00 AM - 2:00 PM

Location: Kennewick Office

**Presenters:** John Tenney & Nadia Gruman

**Attendees:** Alan Brower, Darren Chase, Sandy Downing, Troy Humphrey, Scott Livingston, Jenn Nighbor Carter Stein & Don Warf,

**Recorded by:** Jenn Nighbor

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## Agenda

9:00 AM - 9:30 AM

- Introduction
- Review Project Objectives
- Project Status and Schedule
- M4 Deployment and Startup Scenarios

1:00 PM - 2:00 PM SxC Subsystem

- Overview of INtime and M4 Architecture
- INTime demo
- Review of M4 Performance Test Suite

9:30AM - 1PM Live M4 Beta Demo

## M4 Beta Review

Will have 2<sup>nd</sup> meeting with Dave & Doug after we have a chance to think about features and what we what/need. Scheduled for November.

## Reviewed Project Objectives – from M4 Beta Review PowerPoint Presentation October 2007

M4 application to replace legacy MiniMon and MultiMon applications and will run on current Microsoft Windows platforms with the following objectives:

1. All interrogation data collected by this system will be 100% valid.
2. Interrogation data will be provided to PTAGIS in “near-real” time.
3. 99.9% uptime of all system components.
4. SxC functionality must have as good or better efficiency as MULTIMON.
5. Interface with G2 readers and all legacy hardware.
6. Interface with PTAGIS data management systems.
7. Ease of use.
8. Common application for all deployment scenarios.
9. Monitoring will take precedence over SxC control operations.
10. Provide, as an option, continuous operation with automated fail-over from system or application faults.

**Note: Number 3 – should be 99% and not 99.9%**

Platform is Windows XP not Windows 2000, Windows VISTA within the next year

There are a few bug fixes that John would like to take care of before handing over to PTAGIS staff.

- PTAGIS staff to focus on reviewing features and thinking about what features they want/need and not the minute details.



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**Project Status Review - from M4 Beta Review PowerPoint Presentation October 2007**

- Large portion of project already implemented as M4 alpha release
- Decision to drop Marathon platform and provide custom failover solution
- Development put on hold as of 10/2006 per failover decision
- Architecture revised to include requested features for software failover
- Completion of PLC communication evaluation
- Presentation of revised architecture and design to M4 Committee for approval in January 2007.
- Review and finalize SxC requirements in February 2007
- Continued M4 development through Summer/Fall 2007
- Evaluation of INTime as an SxC Subsystem.
- Review Beta Release Candidate with M4 Subcommittee

Similar in design to Anti-Virus software, this increases the complexity of the architecture, but makes it run really well.

InTime runs your hardware in Real Time – Dual network cards?

More comfortable with meeting SxC performance benchmarks with InTime.

Could use any Sequel Server Database Family.

Will be running same monitoring service whether you are running SxC or not. You can shut down SxC and keep reading.

Failover at monitoring service layer.

You do not need client to tell system to reboot

**M4 Project Component Status - from M4 Beta Review PowerPoint Presentation October 2007**

- Monitor Service 95% complete (Device/Messaging)
- Database components complete
- Deployment Module 95% complete
- M4 Client: Infrastructure 95% complete (CAB/SCSF/EntLib/Config)
- M4 Client: Operational module 90% complete
- M4 Client: Configuration module 75% complete
- M4 Client: Data Management module 50% complete
- M4 Client: Log Management module 90% complete
- M4 Client: Reporting module 0% complete
- M4 Client: SxC Configuration module 0% complete
- M4 Client: Failover module 0% complete

Wiki Page for M4 can be found under M4 Delivery



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M4 Deployment Model – m4.msi

- Need to have Sequel Server Express – will direct you to place to download if needed
- .NET Framework is also required

Talk about licensing issues and will figure out installs so that folks who do not need the license do not inadvertently download the license.

**M4 Client Startup - from M4 Beta Review PowerPoint Presentation October 2007**

- Verifies Database Engine
  - If no compatible SQL Server database fails
  - If missing reporting services – reporting module not loaded
- Verifies M4 Database Version
  - Installs if not present
  - Upgrades if necessary to latest version of application
- Reads Profile
  - Loads modules based upon profile (SxC, Failover etc.)
  - Profile can be changed to add/remove modules via M4 Client Options
- Connects with M4 Monitor Service and Database
  - Reports system status and errors
- Module shell loaded at startup: client features not loaded until used.

Talked about descriptions for all the readers and can have multiple sites for one configuration.

Will hide SxC support tab based on what you are running. If you are not using SxC, then you do not need that toggle option.

**Note: Would like a tool for Latitude/Longitude.**

Could purge configurations if PC is moved to new site, data would be purged as well.  
The configuration always wins!

Will need to know in SxC:

- Who is gate controller.
- Which antenna is upstream or downstream from each other.

Can import and export configuration.

**Note: Need to have button to allow starting version number.**

**Note: Need to allow for starting configuration number to change.**

**Note: True/False to become YES/NO**

Active configuration gives date created, date activated, and date expired.  
Changes have to be saved before monitor can be started.



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Operations Tab:

**Note: Will add “message sending” info.**

Device Status Report – multiples are not interwoven.

All messages for # 1, then # 4, then # 3, etc.

If showing monitor errors, click view errors and handle accordingly.

Will show all unacknowledged errors.

\*\* Can not reactivate an expired configuration.

**Note: Items suggested.**

- **Tie status reports to the devices.**
- **Set-up reporting default to one week.**
- **Add the exciter power.**
- **Would like to be able to print noise reports.**
- **Make protocol to have machines identical.**

One way to get data manually to system is through the export M4 data package.

Want to prevent folks from creating 100+ configurations.

Will be able to compare data, PC1 and PC2.

Will start with same reports as MobileMon.

Integrated event log viewer into M4. Data gets tied to the configuration.