

MV-90 xi TIM Testing

Revenue Metering Standing Committee
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- Important to have an efficient, effective and transparent process to test and implement new TIM's into MV-90 production system
- Do not assume that the latest release of the TIM is fully tested
- Approach may change if implementing new TIM into system or upgrading an existing TIM

- **Required functionality for IESO business processes includes**
 - Collection of interval data, register data (encoders) and event data
 - Auto time set

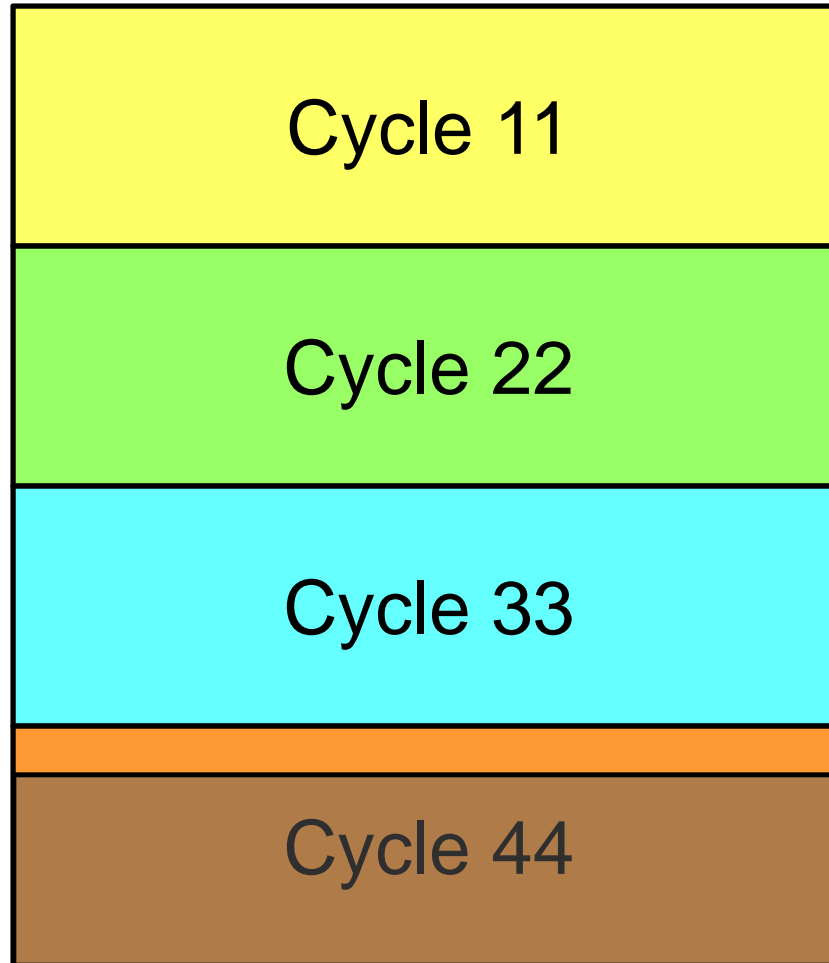
Functionality tested:

- Status Check
- Load Profile Read – Partial
- Load Profile Read – All
- Set Time
- Translation of meter events

Functionality not tested:

- Set Device ID
- Read Binary Register Data
- Initialize Recorder
- Change Password
- Write Call Parameters
- Reset Billing Period
- Update DST Times
- Meter Originated call-in
- MVLT/MVP Support

- Testing is broken down into four distinct phases
 - Phase 1: Functional Testing
 - Phase 2: Operational Testing
 - Phase 3: Implementation
 - Phase 4: Monitoring



- Upgrade of existing TIM_ION 051008 to latest TIM_ION
- Existing TIM_ION 102405
 - Fortran MV90 V5.0 TIM
 - Time set across interval boundaries
 - No support for MV-90xi TCPIP communications
- TIM_ION 081108 – number of issues identified
 - All read on implementation
 - TCPIP hanging port issue
 - Time reset
- TIM_ION 090308 – number of issues identified during operational testing
 - Errors during status check
 - Clock error interval data issues (test for known issues)
- TIM_ION010609 – successful implementation
 - Significant performance improvements compared to existing TIM_ION 051008
 - Number of issues identified in monitoring phase
 - Code 10 issues , 41, 47
 - Time reset across interval boundary (2 instances)

- Need to implement C++ TIM's for remaining IESO Conforming meters
 - Q1000
 - Sentinel
 - Alpha
 - KV/KV2c

