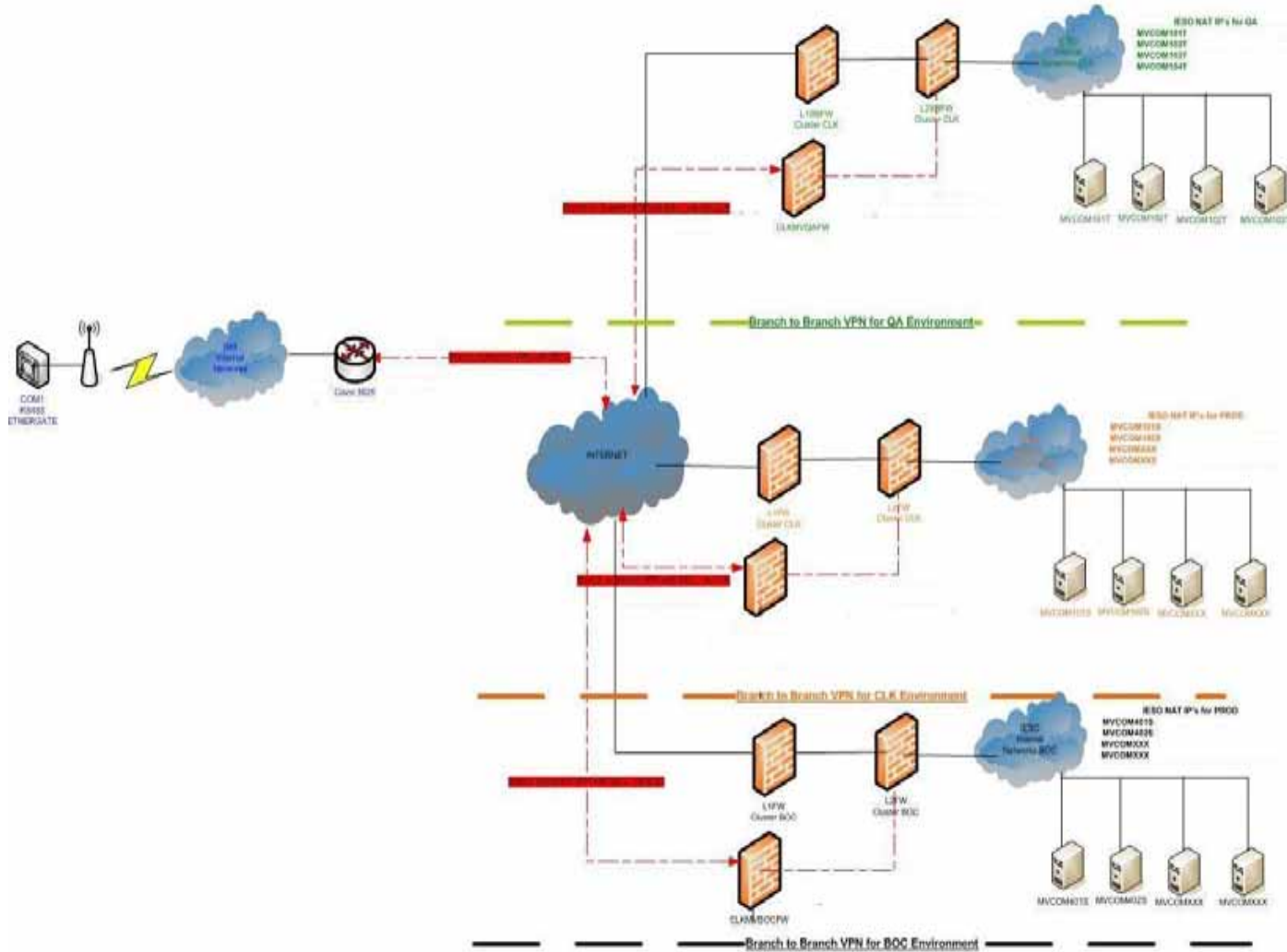


# MV-90xi TCP/IP Communication Update

Revenue Metering Standing Committee  
October 2<sup>nd</sup>, 2008



- IESO currently interrogates 20 registered meters using TCPIP communications (as of September 26<sup>th</sup>)
- 3 MV-COMM stations each have 10 TCPIP ports available
- Each MV-COMM has 3 of the 10 ports enabled
- TIM 97 is used to communicate to ION meters using TCPIP (connection type specific)



- Improved reliability
  - Successful connectivity on first attempt
- Increased interrogation times
  - All Reads (35 days LP and events) – average 2.5 hours
  - Partial Reads (1 day LP and events) – average 11 minutes
- Each MV-COMM station can be configured to have 99 ports available for TCPIP communication

- During the upgrade from MV-90 v5.0 to MV-90xi, IESO continued to use existing Fortran TIM's
- C++ TIMs for MV-90xi were not implemented at that time
- MV90xi TCPIP implementation requires C++ TIMs – TIM\_ION 080907 was tested
- Initial testing was successful, implementation into production was not
- System rolled back to Fortran TIM\_ION

- Itron developed a new C++ TIM; TIM\_ION 090308 to replace TIM\_ION 080907
- We discovered during testing the new TIM had too many issues and will not be implemented
- To keep TCPIP project on track, TIM\_ION 080907 was implemented for TIM 97 – ION TCPIP meters
- All other TIM's (including telephony ION meters) will continue to use Fortran TIM's

- By the end of October, Hydro One to have upgraded 43 metering installation to TCPIP
- 7 legacy metering installation will also be upgraded to accommodate TCPIP communications
- IESO to prepare a project closure report
  - Need to determine if/how TCPIP communications can be made available to all Market Participants

