## EIL Linux Client Agent Update 2011-01-17

* Reboot command:
  + As of 2010-12-22, Linux agent has had reboot functionality
    - *Can accept “Reboot” request from CCMS via steward*
    - *steward hands command to dispatcher*
    - *dispatcher executes a platform specific reboot command*
  + In the three weeks since, additional functionality has been added:
    - *“Reboot” scriptlet for RHEL, SUSE, Ubuntu, CentOS, Debian, etc. (distributions with more “full” environments) now have logic that prevents them from reaching a dead-lock reboot state*
    - *Reboot checks for race conditions and will sleep the steward (kill the daemon, schedule it for restart)*
  + Consume update:
    - *Update status was not returned upon completion previously, this is being added now*
    - *gSOAP structures were built in November in anticipation of this need, but had yet to be used*
* TCP Diagnose command:
  + When switching VLANs, the networking naturally becomes incorrect and must be corrected.
  + gSOAP returns generic TCP error, which means steward cannot determine what the problem is.
  + On a gSOAP TCP error, an external command is issued to the dispatcher, “TCP Diagnose” which will attempt to determine the problem and repair it:
    - *TCP Diagnose will perform a number of actions based upon the platform in question*
    - *“Full” version for RHEL, SUSE, Ubuntu, CentOS, Debian, etc., and “Light” version for ESXi and XEN.*
* NMSA wrapper service:
  + Intent of wrapper service is to provide similar functionality as the CCMS wrapper but for the NMSA.
  + At present, this has just been stubbed and is ready for additional work.
* Build Environment:
  + The build environment can now be setup automatically from a stock Ubuntu or Debian install
    - *Instructions on how to do it manually as well as a script which will set up the environment for you*
  + Instructions explain more general build/development requirements so that other platforms and distributions could be used.