



Cornell University
Facilities Services
Facilities Management

Job Name:

Network #

Device instance range:

Pasco checklist for New Devices prior to Synchronization

1. Ensure that BCM and/or VLX panels have no BBMD tables (unless specifically instructed otherwise) and that Envision is not set to auto-configure BBMDs.
2. Double check for proper and unique BACnet device instance numbers.
3. Double check for proper and unique BACnet device names.
4. Double check for proper and unique alarm BACnet object names in place of the EEO.
5. Double check that each BACnet object within a device has a unique BACnet object name.
6. Double check Notification Classes assigned to alarm and trend handlers (notclass1 Envision Alarms, notclass2 EMCS Alarms, and notclass3 Trendlog).
7. Double check for proper peer to peer communication to minimize broadcast traffic (e.g., REDS and WEDS Visual Logic blocks instead of RED and WED).
8. Ensure that items 1 through 6 are complete *prior to, or immediately after*, activating a device on a live Campus BACnet network.
9. Download devices when placed under a new parent server to clear previous notification classes, stored events/resend queues, bindings.
10. Ensure that offline devices are placed out-of-service on their parent server in Envision until ready to be activated.
11. Verify proper Network Point configuration in Envision parent server. Correct errors/misconfigurations.
12. Verify proper configuration of Trendlogs. Correct incorrect Trend Settings.
 - a. Analog Points: Shall never be trended faster than a 5 min interval, with the trigger never set below the default of 80. Analog points associated with control variables or physically sensed measurements shall never be trended on COV.

b. Binary Points: Shall never be trended faster than a 5 min interval, with the trigger never set below the default of 80. Binary points may be trended on COV with the trigger never set below the default of 80.

- 13. Use Zino on appropriate VLAN (consult Josh/EMCS/Control Shop Engineering for questions) to check Who-Is/I-Am Merged traffic page to identify any recent anomalies associated with new devices;; e.g., <http://vlan-850-zino.emcs.cornell.edu/who-is-i-am-merged>.
- 14. Use EMCS report page BACnet RouterToNetworkMergedTraffic to identify any recent broadcast anomalies associated with new devices: <http://www.emcs.cornell.edu:8080/RouterToNetworkMergedTraffic>.
- 15. Ensure that integrated 3rd party devices and their associated networks are defined, named, numbered, and displayed in Device Manager (e.g., Modbus, BACnet MSTP, N2, etc.).

Control Shop Engineering group Sign-off -----

EMCS Sign-off -----

* EMCS/Control Shop reserve the right to disconnect any devices found on active campus networks if those devices have not been vetted using the above checklist and signed off by appropriate University representatives.