BAS Network Description Summary and Project Goals

BAS Network Description Summary

Washington State University uses two different BAS Control Systems, Siemens Building Technologies control systems and Alerton control systems. These control systems are DDC (Digital Control) systems and their primary function is to control HVAC equipment. In addition, these systems are required to function on Washington State University network systems.

Project Goals

Based on a series of discussions with Washington State University Facilities Operation and Maintenance Personnel for the project, the following goals have been identified as guiding principles for the BAS Network and Panel Upgrade.

1. Function automatically with either Desigo or Compass servers and provide user interfaces through them.
2. Provide descriptive graphics and point descriptions for user to observe and use basic interface functions such as point commanding, reporting, trending and others.
3. The controls systems are required to schedule controls through the user interfaces, allow programming adjustment interfaces, and lend themselves to smart building integrations, routines, procedures, applications and data acquisition.
4. The control systems are required to provide user friendly, descriptive, alarms notifications, and notifications related to smart applications,
5. All the devices shall function using current BACnet IP an MSTP protocols, interface with Siemens FLN (P1) protocol for zone controls and other applications that may be connected to the network using the network method.
6. The system BACnet objects must be appropriate for data collection to a data acquisition system.
7. PIC’s statements will be provided for any BACnet related device.
8. If using a Modbus or Gateway, the registry map for the Gateway and each Modbus or other device will be provided.