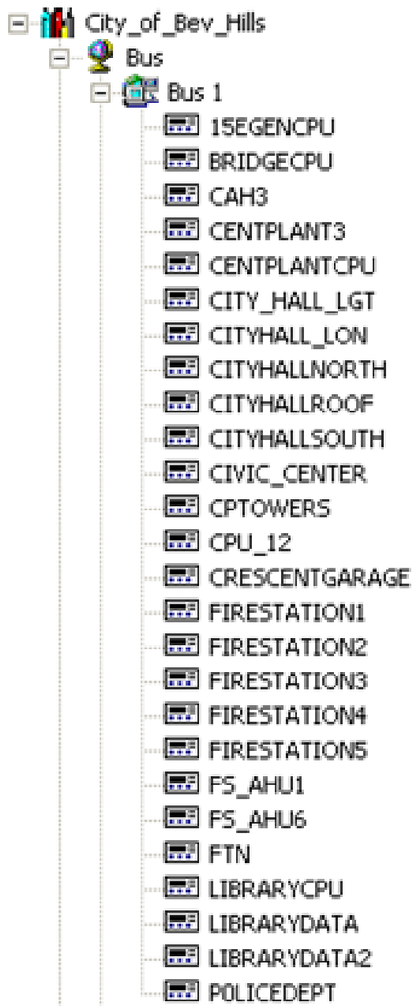
IX. APPENDIX III

Existing System Architecture
Showing Network and Basis of Design for the System Modification

Existing CBUS Legacy Controllers to be converted to non proprietary Sedona, Spyder or Tridium Based controllers. See controller summary sheets for the point and hardware information. New sensors to be provided. All new panels to be UL certified.

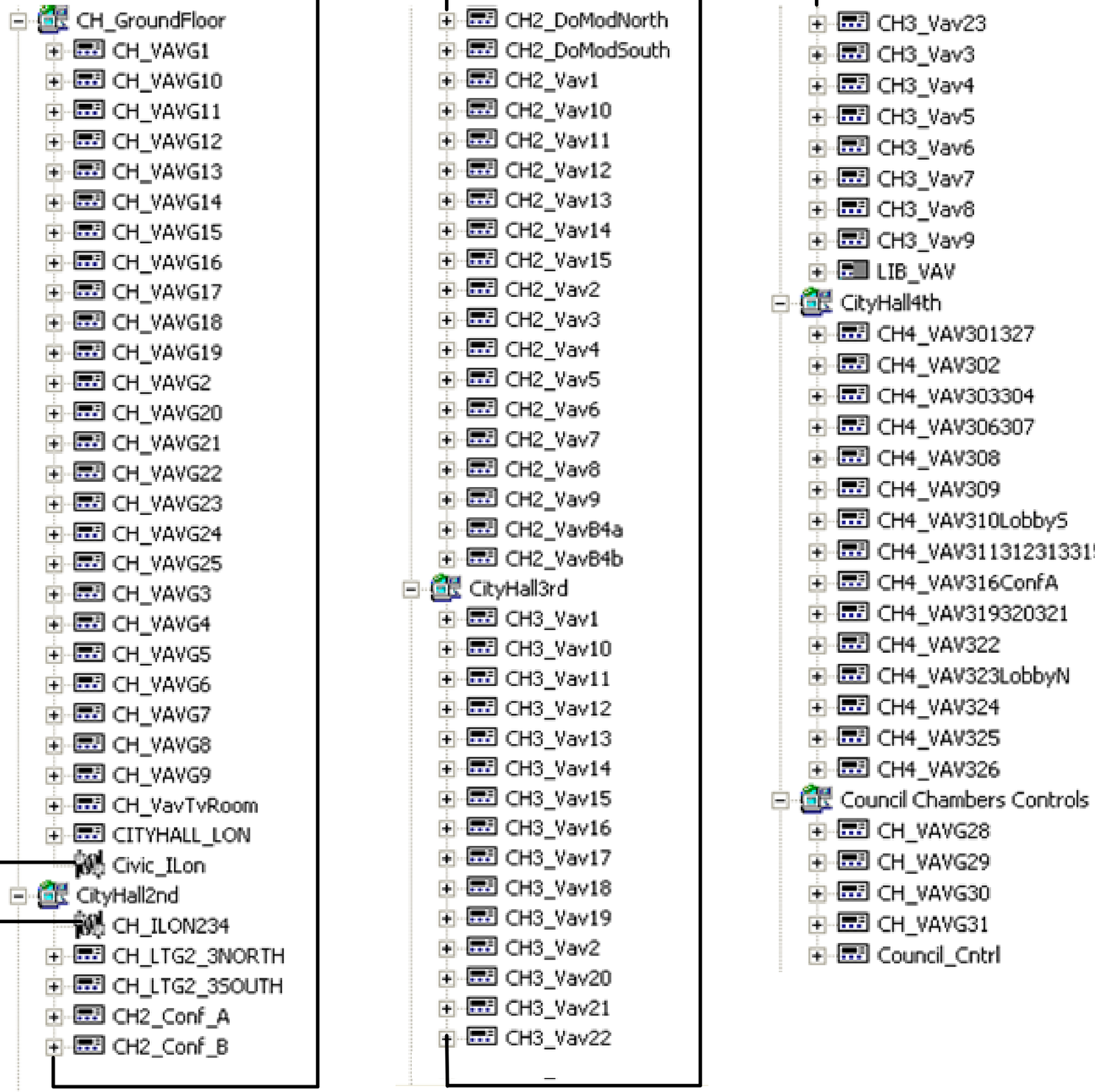


City Hall Controls Architecture

City Hall Existing Network as well as basis of design for the system modifications.
Existing Lonworks FT-10 devices networked with ILON 600 IP devices connecting to the existing Symmetre HVAC Server

The new architecture will be designed to utilize the existing FT-10 field devices. The devices will be integrated into N4 JACEs. The new JACEs with have configuration menus to access all configuration properties including user defined configuration properties. The new JACEs will be added to the upgraded N4 Supervisor Station.

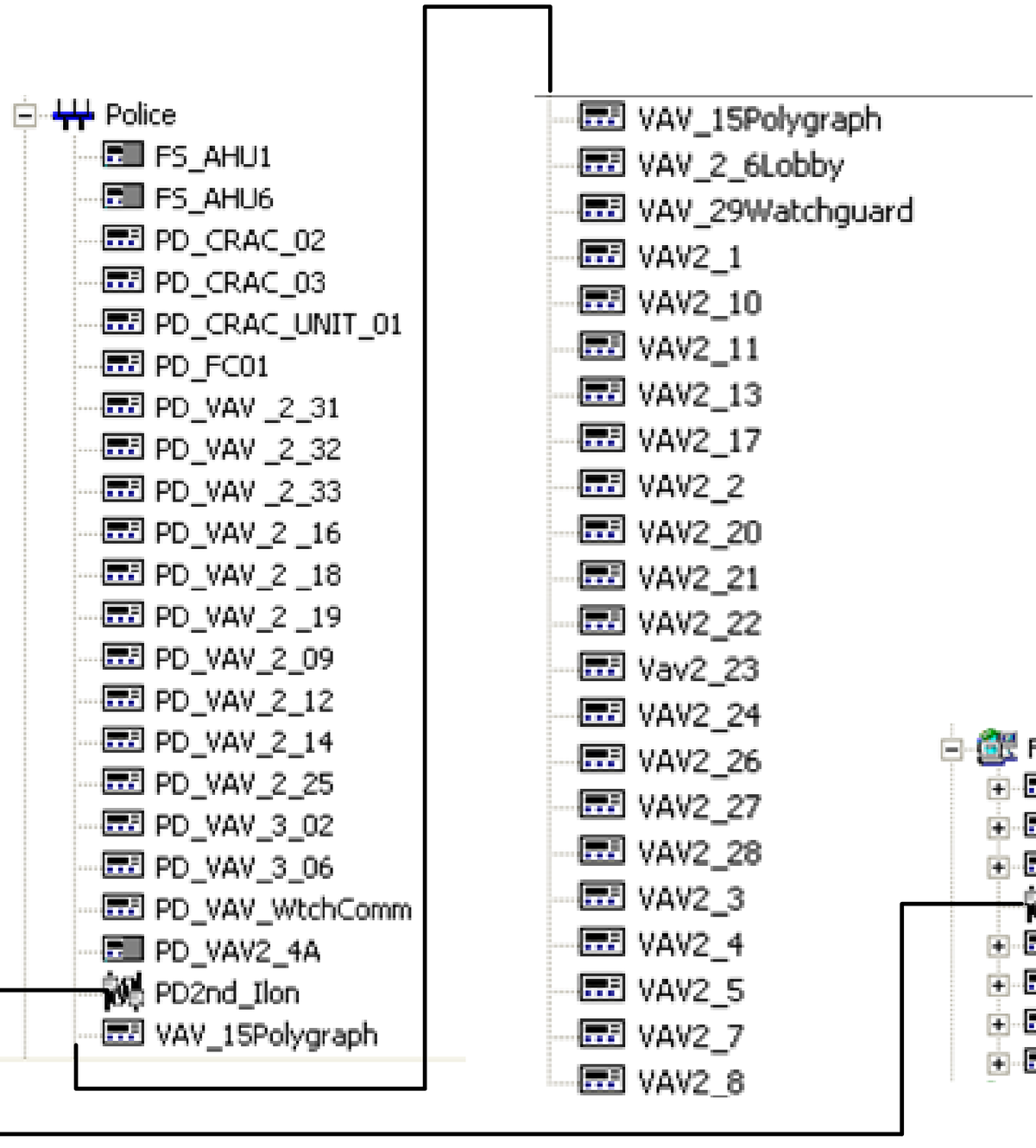
CITY WAN CONNECTED TO MAIN HVAC SYMMETRE SERVER



Police Department Architecture

The Existing Lonworks FT-10 devices network with ILON 600 IP devices connecting to the existing Symmetre HVAC Server. There are three legacy cbus controller at this building that will need to get upgraded to a Tridium or Sedona IP based product. New UL control panels will need to be provided. There is a custom touch screen display utilized for the firing range controls that will need to be integrated into the modified system.

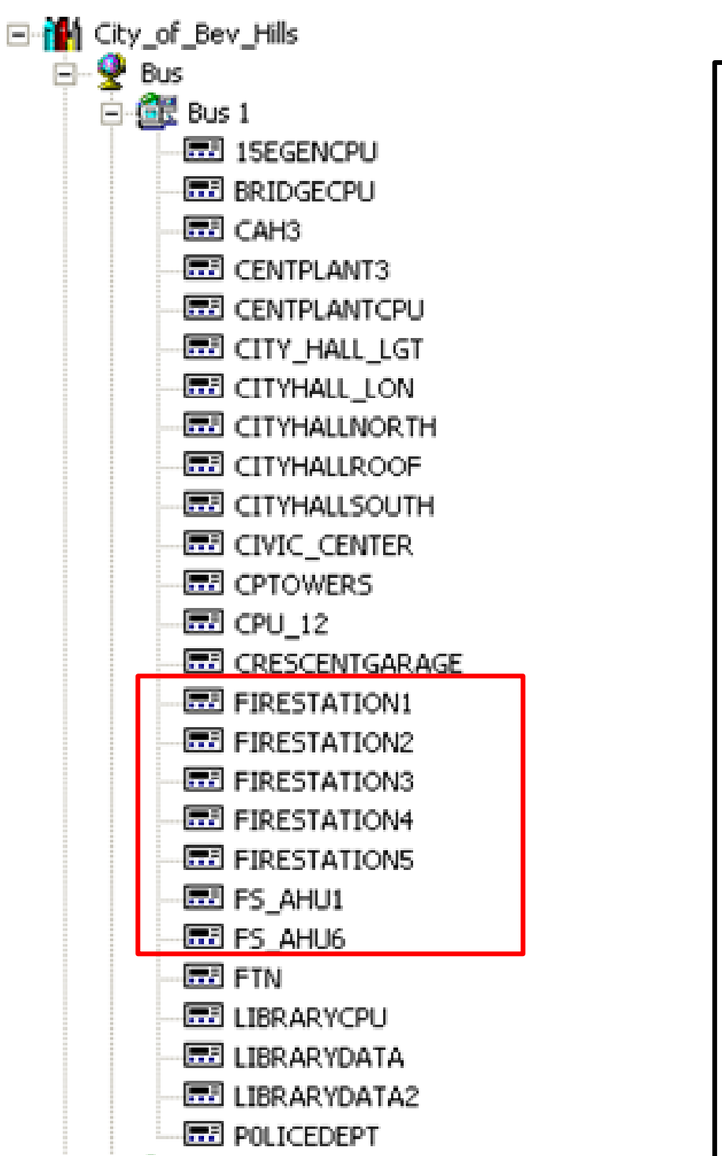
The new architecture will be designed to utilize the existing FT-10 field devices. The devices will be integrated into N4 JACEs. The new JACEs with have configuration menus to access all configuration properties including user defined configuration properties. The new JACEs will be added to the upgraded N4 Supervisor Station.

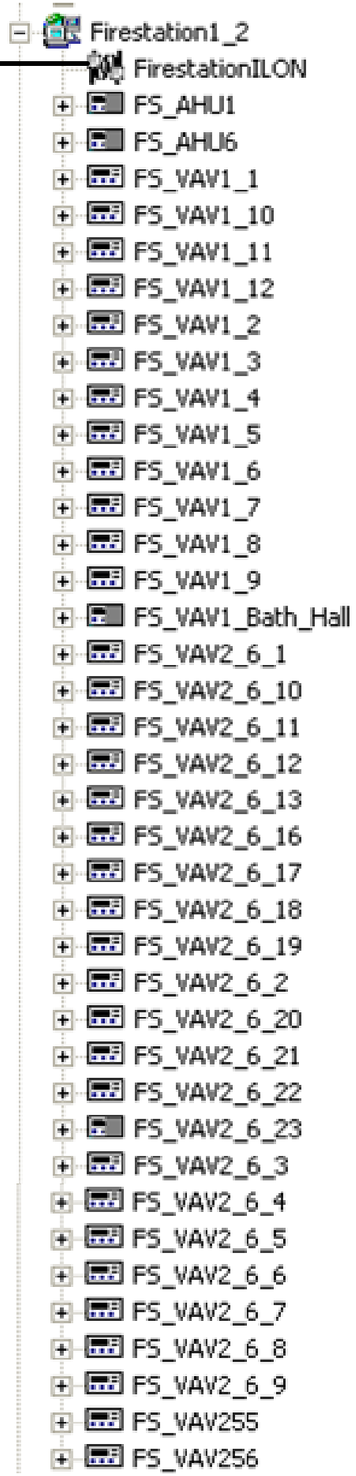


Fire Department Architecture

The Fire Departments Existing Network as well as basis of design for the system modifications.
The Existing Lonworks FT-10 devices network with ILON 600 IP devices connecting to the existing Symmetre HVAC Server. There are 7 Legacy Cbus controllers that need to be upgrades to IP based Tridium or Sedona devices. New UL certified control panels to be provided were the existing legacy panels exist.

The new architecture will be designed to utilize the existing FT-10 field devices. The devices will be integrated into N4 JACEs. The new JACEs with have configuration menus to access all configuration properties including user defined configuration properties. The new JACEs will be added to the upgraded N4 Supervisor Station.



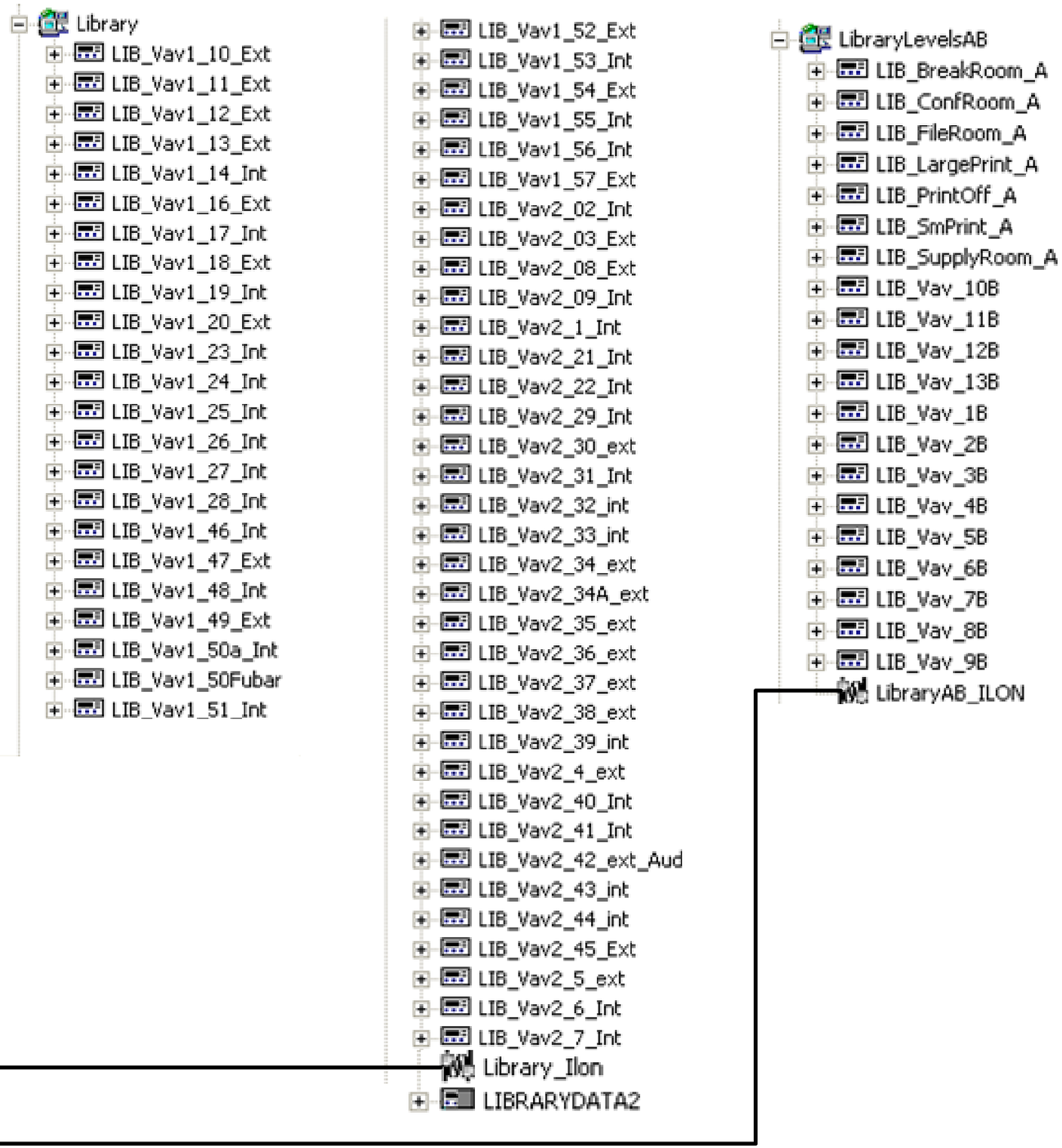


CITY WAN CONNECTED TO MAIN HVAC SYMMETRE SERVER

Library Architecture

The Library's Existing Network as well as basis of design for the system modifications.
The Existing Lonworks FT-10 devices network with ILON 600 IP devices connecting to the existing Symmetre HVAC Server

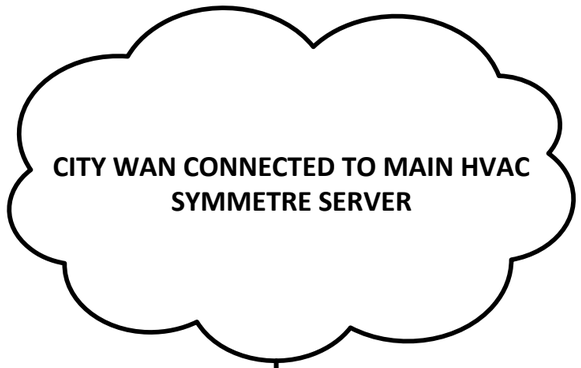
The new architecture will be designed to utilize the existing FT-10 field devices. The devices will be integrated into N4 JACEs. The new JACEs with have configuration menus to access all configuration properties including user defined configuration properties. The new JACEs will be added to the upgraded N4 Supervisor Station.

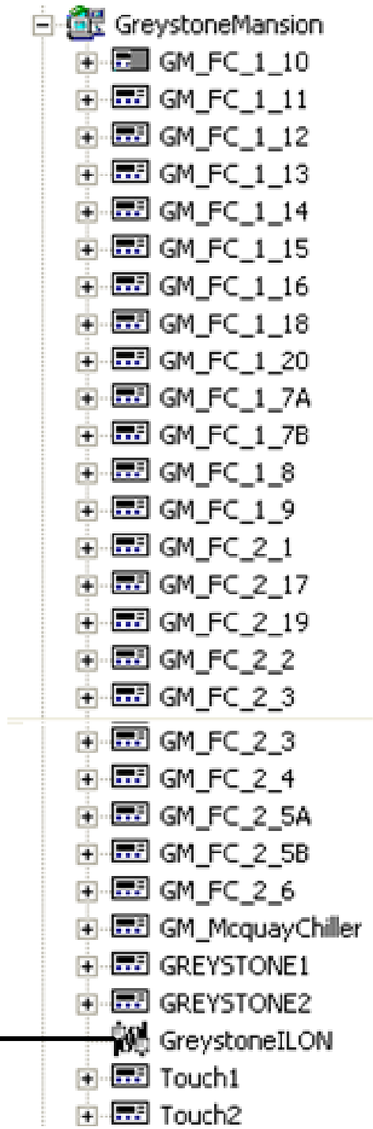


Greystone Architecture

The Greystone Mansions Existing Network as well as basis of design for the system modifications.
The Existing Lonworks FT-10 devices network with ILON 600 IP devices connecting to the existing Symmetre HVAC Server. There are two custom touch screen displays that are on the network that will need to be integrated to the new architecture.

The new architecture will be designed to utilize the existing FT-10 field devices. The devices will be integrated into N4 JACEs. The new JACEs with have configuration menus to access all configuration properties including user defined configuration properties. The new JACEs will be added to the upgraded N4 Supervisor Station.

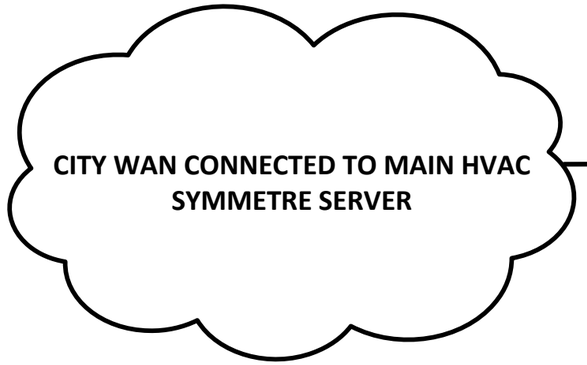


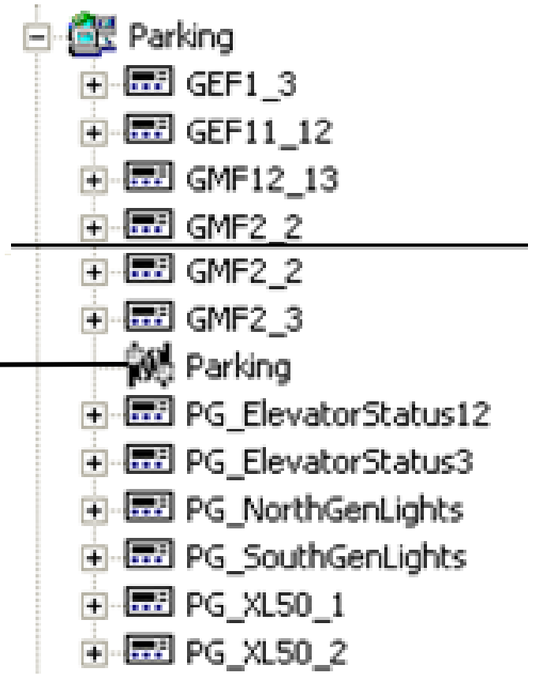


Crescent Garage

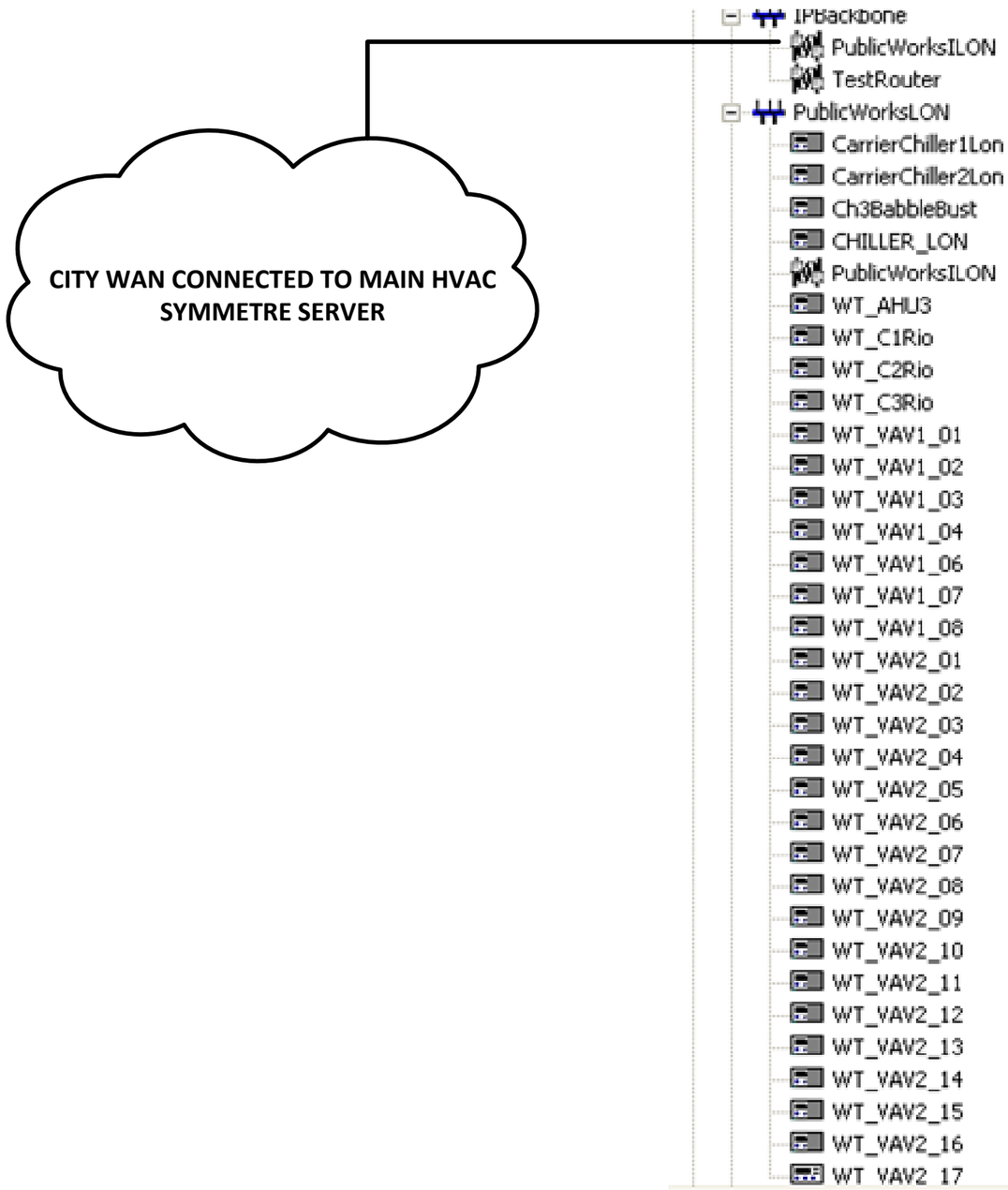
The crescent Garage Consist of (2) Legacy controllers controlling Honeywell Open IO modules and VFDs. The Legacy controllers will be replaced with JACE devices and connected to the new N4 station

The new architecture will be designed to utilize the existing FT-10 field devices. The devices will be integrated into N4 JACE. The new JACEs with have configuration menus to access all configuration properties including user defined configuration properties. The new JACEs will be added to the upgraded N4 Supervisor Station.





Public Work Building: this site consists of one legacy Controller WT_AHU which is the main controller for the site. All device are FT-10. the new system will keep the FT-10 devices and connect to a FT-10 Card in an N4 JACE. The programming in the legacy controller will be duplicated in the JACE. The new system will be recommissioned and tested to verify operations. A field report will be provided of any controller deficiencies or issues.



Provide Option Pricing to replace the VAV controllers to new FT-10 Stryker Controllers with new wall modules, actuators and sensors.