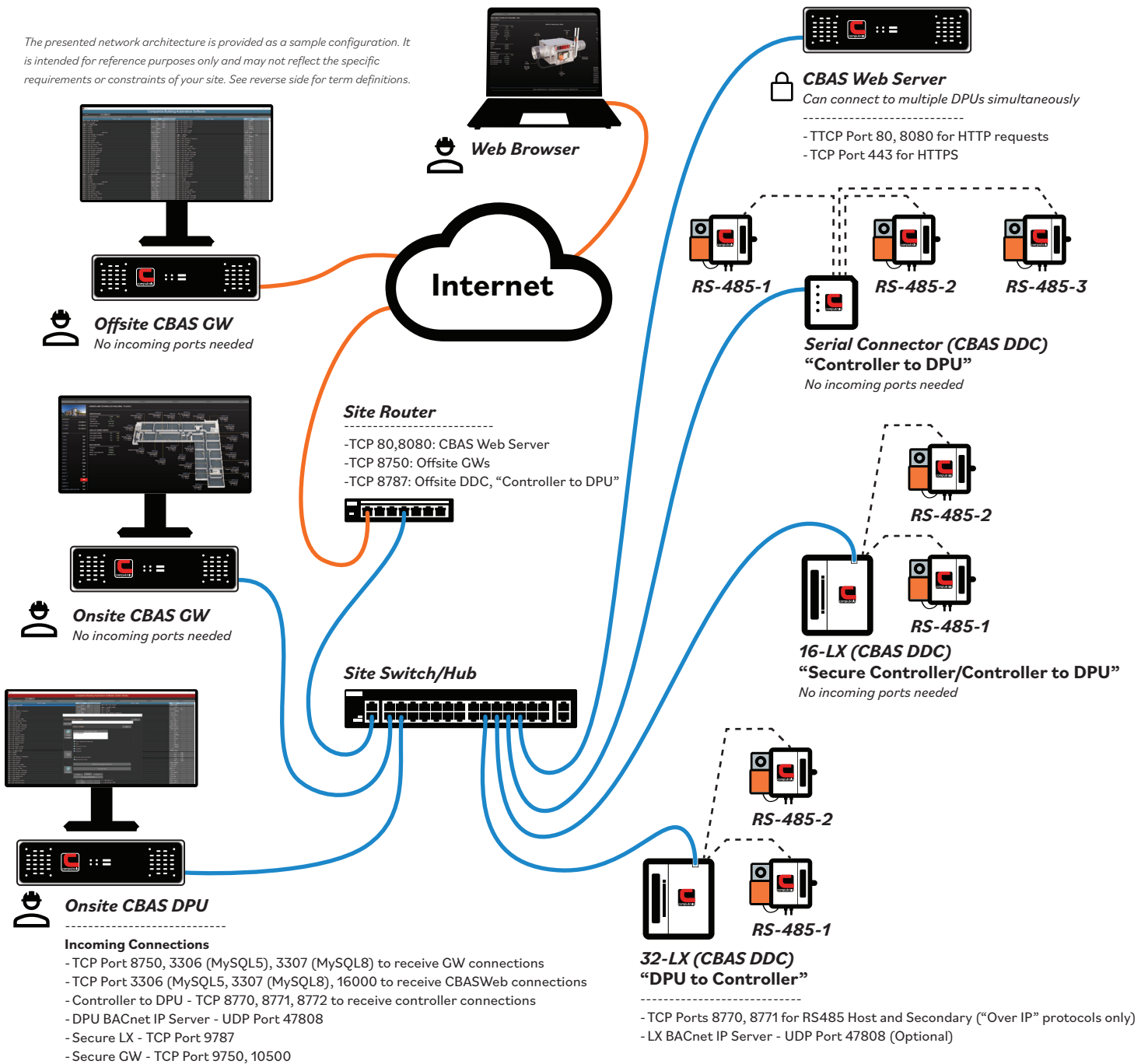


Overview

CBAS network architecture typically falls into one of two modes. In “**DPU to Controller**” mode, all connections to direct digital controllers (DDC) controllers are initiated by the DPU to each controller’s IP address. Controllers are referenced in the software by their IP address. In “**Secure Controller/Controller to DPU**” mode, each DDC controller initiates connections to the DPU’s IP address. Controllers are referenced in the software by their MAC (serial) address. Both types of connections can be supported simultaneously by the DPU.

The presented network architecture is provided as a sample configuration. It is intended for reference purposes only and may not reflect the specific requirements or constraints of your site. See reverse side for term definitions.



- Incoming Connections**
- TCP Port 8750, 3306 (MySQL5), 3307 (MySQL8) to receive GW connections
 - TCP Port 3306 (MySQL5, 3307 (MySQL8), 16000 to receive CBASWeb connections
 - Controller to DPU - TCP 8770, 8771, 8772 to receive controller connections
 - DPU BACnet IP Server - UDP Port 47808
 - Secure LX - TCP Port 9787
 - Secure GW - TCP Port 9750, 10500
- Outgoing Connections**
- api.computrols.net - TCP port 80, 443, 1883, 8883 for email alarms, connectivity to CBAS.Live and remote database backups

- 32-LX (CBAS DDC) "DPU to Controller"**
- TCP Ports 8770, 8771 for RS485 Host and Secondary ("Over IP" protocols only)
 - LX BACnet IP Server - UDP Port 47808 (Optional)



Definition of Network Architecture Terms

CBAS

- Computrols Building Automation Software is designed to control and monitor HVAC, lighting, access, and fire alarm systems.

CBAS Web

- CBAS Web is intended to be a 100% web-based extension of our core software product.

Controller to DPU

- A setting that only allows the controller to initiate communications with the DPU. This method relies on the device's MAC address to communicate with CBAS.

DPU

- Distributed Processing Unit. The DPU is the central computer that hosts the Computrols Building Automation System (CBAS) program.

DPU to Controller

- The default setting in all parent controllers allows the DPU to initiate communications. This method relies on the device's IP address to communicate with CBAS.

GW (Graphic Workstation)

- From CBAS on a GW, you can perform most of the same operations that you might at the DPU: command points, change logic, set schedules, adjust PIDs, run reports, add and remove access control cards, add users, etc. Some operations you can't do from a GW are making database backups and add and remove controllers, points, or channels.

RS-485

- A standard for hierarchical serial communication whereby a "parent" device controls communication with multiple "children" devices over a shared bus.

Secure Connection

- Transport Layer Security (TLS) certificates guarantee encrypted communication between our devices and software applications.