Best Practices for My Building Customer Hosted Software

My Building Customer Hosted software supports two deployment options: fully isolated and fully integrated. The primary difference is whether the lighting control network is separate from or integrated into the customer's IP network. Proper network and port configuration prior to deployment is essential for a smooth deployment.

In a fully isolated deployment, the lighting control network is separate from the customer's network. Customers cannot directly access room controllers, and some functions, such as device enrollment, are restricted. These tasks require a direct connection to the lighting control network using the secondary Ethernet port on the computer running My Building.

In a fully integrated deployment, the lighting control network is part of the customer's network and may reside on a dedicated VLAN. All routing and access controls are managed by the customer. This approach provides full network access to system components through the LAN.

For either deployment, the customer's IT team must supply configuration details, including a preferred host name for the hardware hosting My Building (default: myBuilding) and IP addressing information for the Ethernet port (assigned IP or a MAC address for static assignment). My Building requires access to an SMTP email server authenticated by username and password, as well as the SSID and passphrase used by room controllers.

My Building uses standard IP based communication over TCP/IP and UDP/IP. For projects requiring BACnet integration, both BACnet/IP and BACnet/SC are supported. BACnet/IP requires local network access to the BAS/BMS; if no local access is available, a BacNet/BBMD can be created. BACnet/SC uses TLS encrypted TCP and is supported only if available on the customer's BAS/BMS platform.

My Building Ports

Protocol Name	Source → Destination	Protocol/ Port #	Notes
MQTTS	Room Controller → MQTT Broker	TCP 8883	TLS with AES Encryption
MQTTS	MQTT Broker (Building) → MQTT Broker Central	TCP 8883	Only in multi-building system architectures
DHCP	Room Controller → DHCP Server DHCP Server → Room Controller	UDP 67 UDP 68	Static addressing is possible but not recommended
DNS	Room Controller → DNS Server	UDP 53	Required when DHCP is used
NTP	Room Controller → NTP Server My Building → NTP Server	UDP 123	For time synchronization, can be turned off
API	My Building Phone App → My Building	TCP 443	Access to API calls. Secured with TLS with AES encryption as well as user tokens drive by a user permissions model. Certificate is a private certificate unique per project.

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My Building Ports (continued)			
Protocol Name	**Source → Destination**	**Protocol/ Port #**	**Notes**
HTTP/ HTTPS	Client Computer → My Building Phone App → My Buildilng	TCP 80,443	Secured with TLS with AES encryption as well as user tokens drive by a user permissions model. Certificates used for web browser access can be automatically generated by Lets Encrypt, provided by user, or used insecure.
SMTP	My Building → SMTP Server	25	Outbound email, alarms/alerts, account validation. Port number, username, password is configurable.
BACnet	BAS/BMS Controller → My Building	UDP 47808*	BACnet is a protocol defined by ASHRAE for communication between Building Management Systems (BMS) and/or Building Automation Systems (BAS) to other devices
TCP/ ASCII	My Building Phone App → Room Controller	TCP 57786	Only needed when direct access to room controller is needed and when phone is on lighting control network.
HTTP	Client Computer → Grafana on My Building Server	3000	Used if grafana is installed on your system
MySql	My Building Microservices → MySQL Server	3306	Used for data storage. External access to MySQL is not required, the only client are the My Building microservices themselves. As such, access should be severely limited.
Mongo	My Building Microservices → MongoDB	27017	Used for data storage. External access to the Mongo database is not required, the only client are the My Building microservices themselves. As such, access should be severely limited.
SSH	Service management	22	May be required for management services
HTTP/API	Client Computer → Grafana on My Building Server	9090	Prometheus Access - system monitoring

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