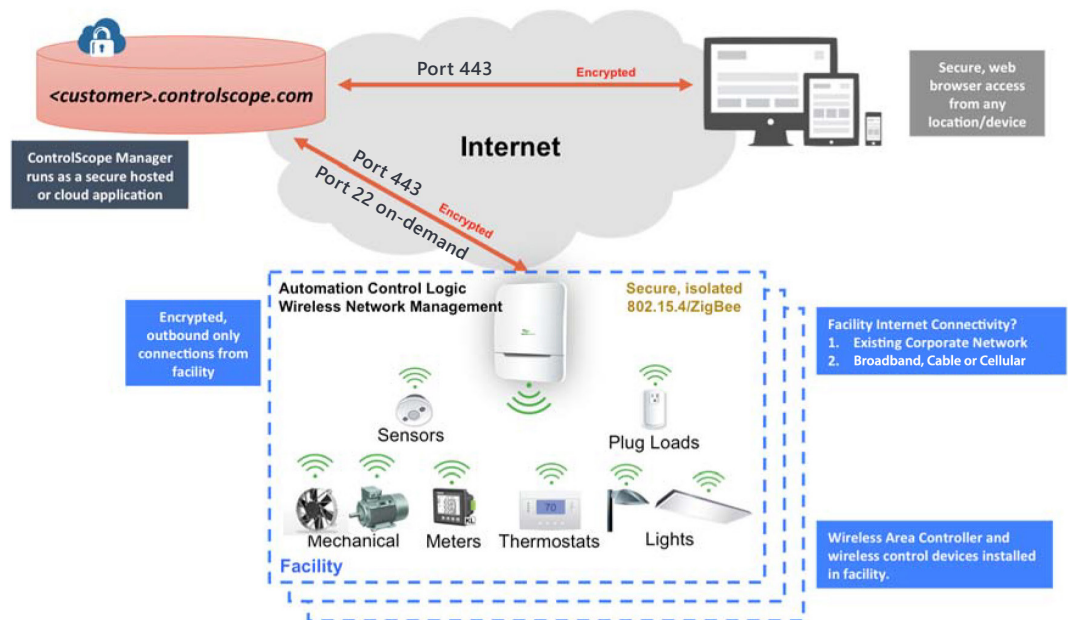


Daintree™ ControlScope IT Networking Guide: BEMaaS

Daintree™ ControlScope is an energy management system using an open standards wireless platform to deliver comprehensive and cost effective control of multiple energy intensive applications such as lighting, HVAC, plug loads and others. Daintree ControlScope supports several network deployment models to meet the various needs of company IT policies. Use this guide to identify networking configuration requirements with the customer IT department.

Daintree ControlScope Building Energy Management as a Service (BEMaaS)

- Software-as-a-Service (SaaS) delivery model where the ControlScope software application is provided as a secure cloud application, managed by Daintree Networks.



Internet Connectivity

WACs can be connected to a corporate network, broadband or cell modem connection. The WAC initiates outbound connections to the BEMaaS instance. No port forwarding/NAT holes are to be configured on the firewall.

WACs require the following minimum outbound ports for full operation and troubleshooting accessibility:

Port	Direction	Function
443	outbound	web socket connections & HTTPS
22	outbound	Initiate remote connection for servicing the WAC60
53	outbound	DNS queries (if no local DNS server)
123	outbound	Network Time Protocol (NTP)

NOTE – the WACs should not be accessible directly from the internet. NO PORT FORWARDING.

Bandwidth & Data

For successful communications with the CSM cloud application, each WAC requires up to:

- 100 kb/s of available network bandwidth
- 1 GB of monthly data transfer

NOTE:

The remote instance IP can and will change. If the remote IP of the instance does change after an instance shutdown and restart, the related DNS record entry is automatically updated. It is advised to not lock the WAC outbound access at the firewall to a specific IP address of the instance as this could break connectivity.

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IP Address Assignment

When the WAC connects to the corporate network, it needs an IP address assigned. Refer company IT to the following table for the network configuration parameters required for each WAC (IT Information worksheet template follows).

DHCP	Static IP
Company DHCP server will assign each WAC IP address	<ul style="list-style-type: none">• IP Address• Subnet Mask• Default Gateway• DNS Server• DNS Search Path

IT Information Worksheet

WAC Network Parameters

IP Address (range for multiple WACs)	____.____.____.____ to ____.____.____.____
Subnet Mask/Netmask	____.____.____.____
Default Gateway/Router	____.____.____.____
DNS Server	____.____.____.____
DNS Search Path	____.____.____.____
System Controller	____.____.____.____
Update Server (Typically the SC IP Address)	____.____.____.____

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