Network Security

TURNTIDE®

Turntide's networking architecture ensures private organization data always remains safe and secure, while offering the flexibility needed to ensure Turntide motors comply with global security policies and requirements set by organizations.

Flexibility for the Facilities Manager

Facilities managers have full control over how Turntide motor data is shared across an organization's network. Turntide data can be managed either through Turntide's secure cloud platform, or on an organization's existing local BMS system.

No matter how Turntide data is managed, all Turntide motor functionality is independent from the cloud. In any situation where the facilities manager only wants a local connection, they always have the option to run the motor system locally.

OPTION 1
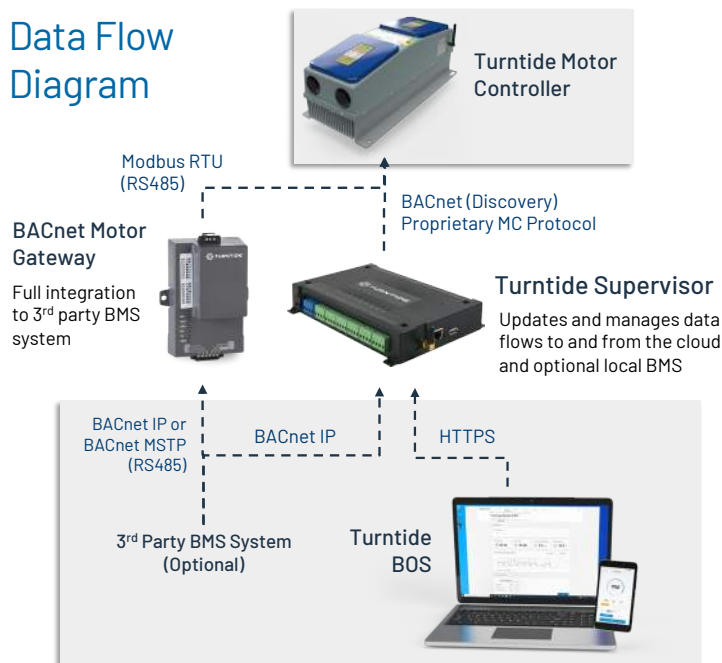
Turntide BOS (Turntide Cloud)

Turntide BOS (Turntide's cloud platform) connects to the Turntide Smart Motor System via HTTPS. All communication to and from Turntide BOS is encrypted using certificate-based TLS 1.3.

OPTION 2

Local BMS System

Through BACnet IP protocol, Turntide motors connect to an organization's existing local BMS system. In this configuration, Turntide motors are aligned to the security preferences already set up by the organization through the BMS.

Data Flow Diagram

Turntide Motor Controller

Modbus RTU (RS485)

BACnet (Discovery) Proprietary MC Protocol

BACnet Motor Gateway

Full integration to 3rd party BMS system

Turntide Supervisor

Updates and manages data flows to and from the cloud and optional local BMS

BACnet IP or BACnet MSTP (RS485)

BACnet IP

HTTPS

3rd Party BMS System (Optional)

Turntide BOS

Summary

The on-prem Turntide Supervisor provides advanced local controls for the Turntide Smart Motor System.

The facilities manager can always choose how they access Turntide motor information.

Turntide motor system components are capable of full operation without a connection to the cloud.

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