



METER

SKALA® SYSTEM NETWORK REQUIREMENTS

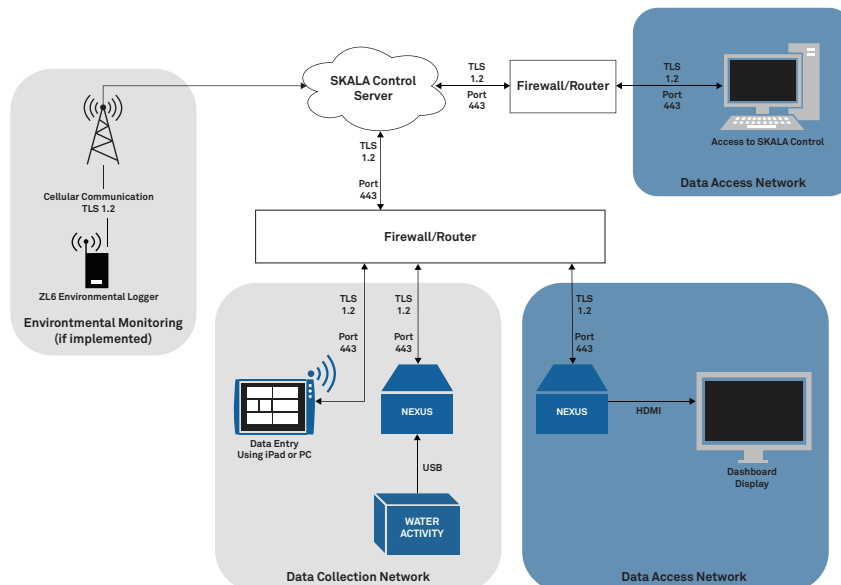
METER Group recommends the following as the network requirements for the SKALA deployment environment (the environment where the NEXUS and Apple® iPad® mobile digital device are installed). Implement the security controls that are appropriate for the sensitivity of the data.

- Internet connection—standard 1 GbE network or faster.
- The devices must be able to connect to the following destinations:
 - skalacontrol.com—the primary endpoint for the SKALA server, hosted by METER Group.
 - websocket.skalacontrol.com—the functional endpoint for the websocket communications layer.
 - *.zoho.com—utilized for the METER secure remote support tool.
- The iPad and NEXUS devices must be able to communicate over the ports listed in the following table. All communication between the NEXUS, iPad, and client PC is bidirectional. No communication will be directly initiated by an outside device.

The following table lists the ports that must be available for the SKALA system to function properly.

Port	Direction	Destination	Usage
443	In/Out	*.skalacontrol.com CHINESE SERVER *skalacontrol.cn	HTTPS over TLS communication, used to retrieve and post data to the SKALACONTROL server
443	In/Out	*.zoho.com	Utilized for the METER remote support tools, enables the METER team to help and resolve issues and outages
443	In/Out	iot-prod.skalacontrol.com	Communication between the NEXUS or iPad and AWS IoT Core Services
123	In/Out	*.ntp.org	Used for NTP time sync
80	In/Out	*.decagon.com	METER firmware updates
443	In/Out	*.metergroup.com	METER firmware updates

The following diagram illustrates the network connections and communications protocols.



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CONNECTION OPTIONS

METER recommends Ethernet connection for the components for connectivity stability, but the components can also be connected via a Wi-Fi® connection.

AQUALAB 3

AQUALAB 3 always connects to the NEXUS via a USB A to B cable.

APPLE IPAD

The Apple iPad connects to the network via a Wi-Fi connection or via an Ethernet cable through a lightning port-to-Ethernet adapter.

NEXUS

METER recommends connecting the NEXUS to the network via an Ethernet cable. Connecting the NEXUS to WiFi can be configured using the USB-to-USB cable (included) and the NEXUS Utility software (available at metergroup.com/food/downloads).

PC INSTEAD OF IPAD

The user will take readings via skalacontrol.io accessed from the user's PC web browser.

SKALA CONTROL

SKALA Control is accessible via a web browser:

- North American servers: skalacontrol.com
- European servers: eu.skalacontrol.com
- Japanese servers: jp.skalacontrol.com

USING A METER DATA LOGGER

METER data loggers do not require a Wi-Fi network or Ethernet. The data loggers have an LTE cellular modem that connects directly to METER cloud services. The loggers operate with T-Mobile® and AT&T® cellular carriers and usually find a good signal. If the location is notorious for poor cell coverage, inform METER so other hardware solutions can be considered.

Please review the network requirements prior to the arrival of a member of METER Professional Services to ensure a smooth, quick, and efficient installation process.