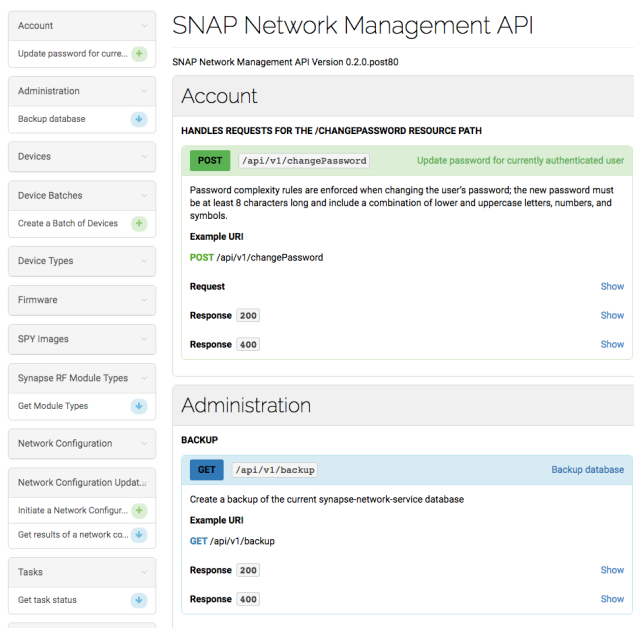# SNAP Site Director
Upgrade Multiple Scripts and Firmware, Over-the-Air

The SNAP Site Director gateway Thing Service provides out-of-the-box reliable and scalable SNAP device firmware and script management.

The Site Director is built on years of real-world experience and best practices to eliminate typical issues with upgrading software on remote IoT devices.

Site Director enables the user to flexibly upgrade both SNAP device firmware and application software over the air in large numbers. Users are provided multiple ways to select devices to upgrade such as via address search, custom device types, custom device names, among other grouping means. The Site Director requires NO gateway programming. Instead, a streamlined UI allows users to directly interact with SNAP devices, while a REST API allows custom or third party software updates.

SNAP Site Director, along with all SNAP Thing Services, is available on Synapse SNAP Connect E12 and E20 Gateways as well as through licensing on custom third party devices.

THING SERVICES

Features

- Wirelessly update SNAP device firmware and SNAPpy scripts

- Configurable bulk updates

- Provision custom device types and descriptions

- Filter device lists with search

- Supports networks of up to 250 nodes

- Web UI served by gateway

- Documented REST API served by gateway

- Authentication and HTTPS for security

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