

FOGLICHT

Foglight 101 Series

Rest API- Part 2

Extend Topology through REST API

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Meet the Speaker

- Clay Jackson, Sr Pre-Sales Engineer
- Master's Degree in Software Engineering
- 12 years at Quest working with Foglight and Shareplex
- 2 Years on Foglight Customer Advisory Board
- 25+ years DBA/DBA Manager
- Telcom Startup Software Development Manager
- 10 years at Microsoft (Support / OS/2 Dev / MIS)
- Open Source Contributor (XASTIR/weewx/HomeAssistant)



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MANAGE MONITOR MOVE

Agenda

- Introduction
- Review – Extend Foglight with REST API
- Topology Overview
- Demo
- Q & A



Use Case Review

Foglight Topology: Data Model Overview

- **Object-Oriented Structure**

Facilitates **modular** and **reusable** data representations

- **Hierarchical Design**

Supports **nested relationships** for detailed organization

- **Extensibility**

Allows **customization** to accommodate **unique** monitoring requirements

- **Key Capabilities:**

- **Extend** and **customize** existing topology objects
- Create **new, tailored** objects to fit specific needs
- **Define** and **manage Object Types** for clarity and **consistency**
- **Utilize Use Services** to **enhance** and **automate** topology management

Topology Type Example: *Extend an existing type*

```
<!DOCTYPE types SYSTEM "../dtd/topology-types.dtd">
```

```
<types>
```

```
  <type name="N7QNMLastBackup" extends="TopologyObject">
```

```
    <property name="name" is-containment="false" type="String" is-identity="true" />
```

```
    <property name="monitoredHost" is-containment="true" type="Host" />
```

```
    <property name="full_dateTime" is-containment="true" type="Metric" unit-name="second" />
```

```
    <property name="full_size" is-containment="true" type="Metric" unit-name = "byte" />
```

```
    <property name="full_duration" is-containment="true" type="Metric" unit-name="second" />
```

```
    <property name="incr_dateTime" is-containment="true" type="Metric" unit-name="second" />
```

```
    <property name="incr_duration" is-containment="true" type="Metric" unit-name="second" />
```

```
  </type>
```

```
</types>
```

Topology Type Example: *Add New Type*

```
<!DOCTYPE types SYSTEM "../dtd/topology-types.dtd">
```

```
<types>
```

```
  <type name="N7QNMWeather" extends="TopologyObject">
```

```
    <property name="name" is-containment="true" type="String" is-identity="true" />
```

```
    <property name="dateTime" is-containment="true" type="Metric" unit-name="count" />
```

```
    <property name="pm2_5_aqi_aqi" is-containment="true" type="Metric" unit-  
name="count" />
```

```
    <property name="outTemp_F" is-containment="true" type="Metric" unit-name="count"  
/>
```

```
    <property name="windGust_mph" is-containment="true" type="Metric" unit-name="count"  
/>
```

```
    <property name="rainRate_inch_per_hour" is-containment="true" type="Metric" unit-  
name="count" />
```

```
    <property name="lightning_strike_count_count" is-containment="true" type="Metric"  
unit-name="count" />
```

```
    <property name="lightning_distance_mile" is-containment="true" type="Metric" unit-  
name="count" />
```

```
  </type>
```

```
</types>
```

A man with a beard, wearing a white sweater, is leaning over a desk, looking intently at a laptop. His hands are on the keyboard. The background is a blurred office environment. The entire image has a teal/cyan color overlay. On the right side, there are several thin, white, curved lines that sweep upwards and outwards.

Demo

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Reminders

- *API: Application Programming Interface*

Follow Software Engineering Principles

- Error handling
- Deal with No data
- Modular Code
- Microservices

Important Tips

- Stay focused — You won't break Foglight
- Your application is your responsibility
- Enjoy the process!



Essential Resources & Links



[Quest Foglight
Home Page](#)



[REST API
Reference
Guide- Version
Specific](#)



[Foglight Skills
101: Upcoming
Webcasts](#)



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Questions



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series!



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Building Custom Dashboards

September
17th, 2025

Clay Jackson