OCP SUMMIT
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OPEN. FOR BUSINESS.
"A Programmable Network"

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Overview

Founded: 1971

World’s No. 1 in:
- Switching Power Supplies since 2002
- DC Brushless Fans since 2006

Leading in:
- Telecom Power Systems
- Industrial Automation
- Passive and Magnetic Components
- Networking Products
- Visual Displays
- Datacenter Infrastructure
- Renewable Energy Solutions

Worldwide Revenues

CAGR: 31.8%
Why is programmability important

Source: Nick McKeown “Programmable Forwarding Planes are here to stay”
White-box Elements

Source: Chris Rice (AT&T Labs), White-box and Autonomous Networks
Today We will present

1. Delta Networks white-box switches running Cumulus Linux OS as Data Centers
2. Delta Networks white-box switch installed with ONL+OFDPA 1.3 as Data Center Interconnect (DCI)
3. Open Platform API to control the platform environmental
Data Center Interconnect (DCI)
Why Delta White-box Platform API?

• Get customer on board faster
  - open software library
  - **ONE set** of API across different delta platforms
  - No need for hardware spec.
  - No need to know platform specific stuff.

• Cut down customer’s development time

- Network OS/Controller
- Platform API
- ASIC API
- Peripherals
- ASIC

Network Disaggregation
Delta Platform API

- High-Level abstracted interface to the environmental on Delta Switches
- Generic and common API across different Delta Switches
- Light weight Implementation
- Enable control of environmental on and off the box
# Delta Platform REST API

## FAN

<table>
<thead>
<tr>
<th>Method</th>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET</td>
<td>/fan/</td>
<td>Get a list of FAN ID's available in the system</td>
</tr>
<tr>
<td>GET</td>
<td>/fan/({fanId})/rpm</td>
<td>Get the rpm of FAN</td>
</tr>
<tr>
<td>POST</td>
<td>/fan/({fanId})/rpm</td>
<td>Set the rpm of FAN</td>
</tr>
<tr>
<td>GET</td>
<td>/fan/({fanId})/caps</td>
<td>Get the capability of FAN</td>
</tr>
<tr>
<td>GET</td>
<td>/fan/({fanId})/description</td>
<td>Get the description of FAN</td>
</tr>
</tbody>
</table>

## LED

<table>
<thead>
<tr>
<th>Method</th>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET</td>
<td>/led/</td>
<td>Get a list of LED ID's available in the system</td>
</tr>
<tr>
<td>GET</td>
<td>/led/({ledId})/mode</td>
<td>Get the mode of LED</td>
</tr>
<tr>
<td>POST</td>
<td>/led/({ledId})/mode</td>
<td>Set the LED Mode</td>
</tr>
<tr>
<td>GET</td>
<td>/led/({ledId})/caps</td>
<td>Get the capability of LED</td>
</tr>
</tbody>
</table>
For more questions please visit us at Delta booth #: B48