Lumen IoD Bandwidth Scheduler

Demo Tool

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Lumen IoD Bandwidth Scheduler overview

To drive automated updates to Lumen Internet On-Demand connections, *leverage the power of an existing scheduling engine* and similarly *meet customers in a familiar environment* they already use.

In this demo tool, a Microsoft 365 calendar is used to drive the IoD bandwidth events. However, the concept could be extended to any third-party calendar solution that has a public API endpoint.

While this demo app uses a *pull* model to retrieve calendar events on a periodic basis, customers could build their own solutions to integrate more deeply into third-party solutions, potentially on a event-based push model.

Lumen IoD Bandwidth Scheduler setup

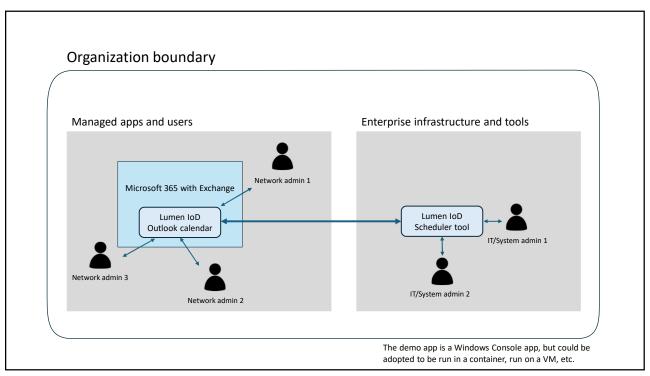
Dependences:

• Microsoft 365 license for work/school (Personal account can be used for testing)

Configuration:

- 1. Microsoft 365 calendar created and provisioned to specified users
- 2. Registered application in Azure Entra ID to allow calendar access through Microsoft Graph APIs:
 - Including client secret and Graph API permissions (Calendars.Read and User.Read.All)
- 3. Registered application in Lumen Developer Center for IoD
 - · Including client secret
- 4. Configured process to run Lumen IoD Scheduler on recurring basis (such as through Windows Task Scheduler, Windows services, Kubernetes cronjob, etc.)

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Lumen IoD Bandwidth Scheduler examples

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Calendar event format

For this tool, the following syntax is required for calendar events:

- Subject line of a (configurable) format. Default value:
 - "Lumen IoD | Start: <#> Mbps | End: <#> Mbps" where # is the value such as 100, 50, 1000
- Location:
 - Value represents the Service Id of the IoD connection
- Category tagging:
 - The *count* of the Categories set on a calendar event reflects the priority of the event; The more categories, the higher the priority

