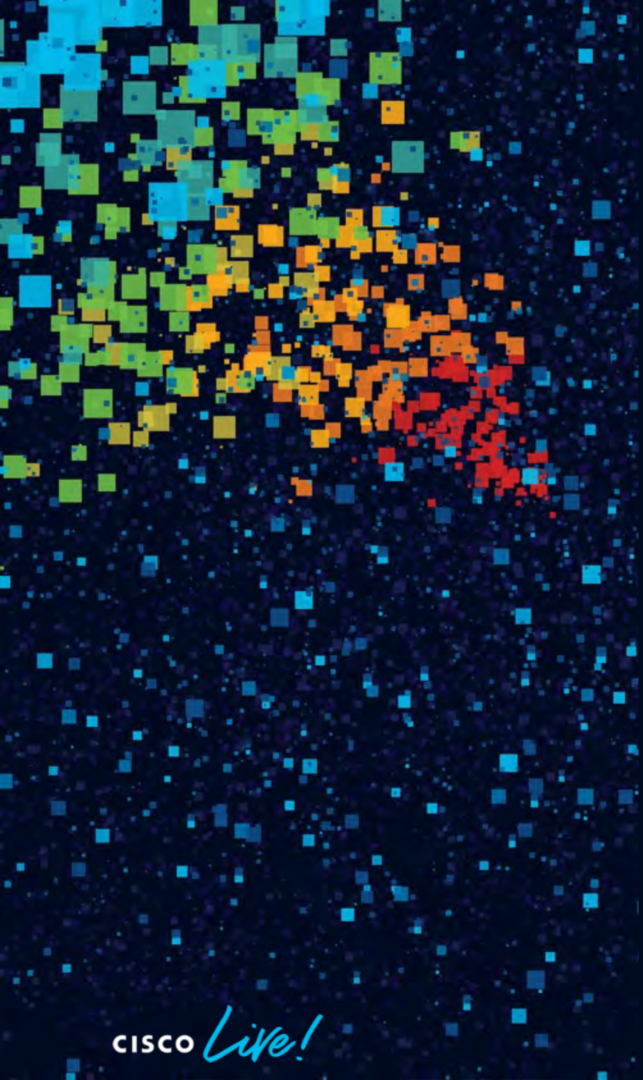
Webex Devices APIs

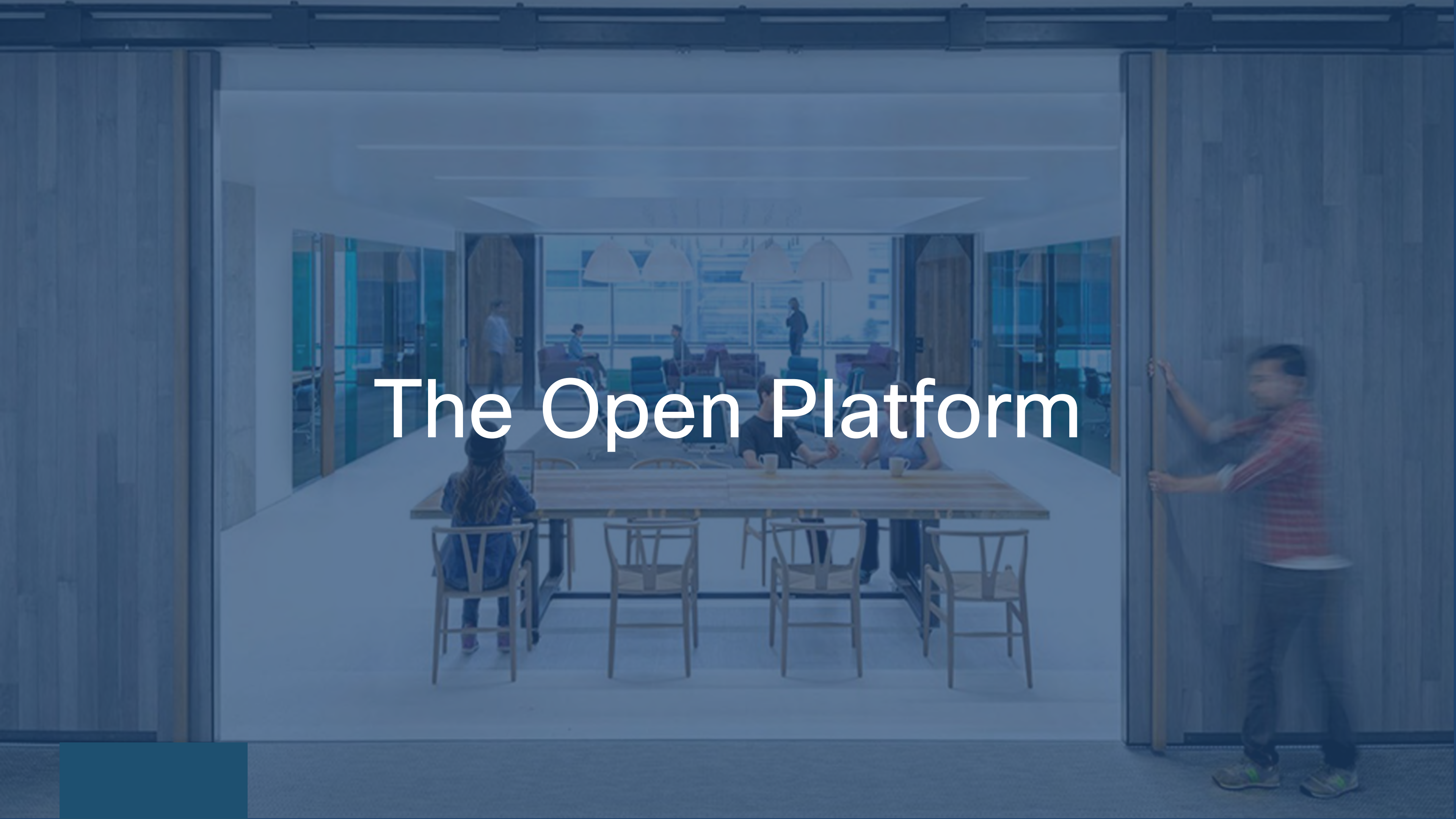
New Features and Roadmap

Richard Bayes
@CollabRich



Agenda

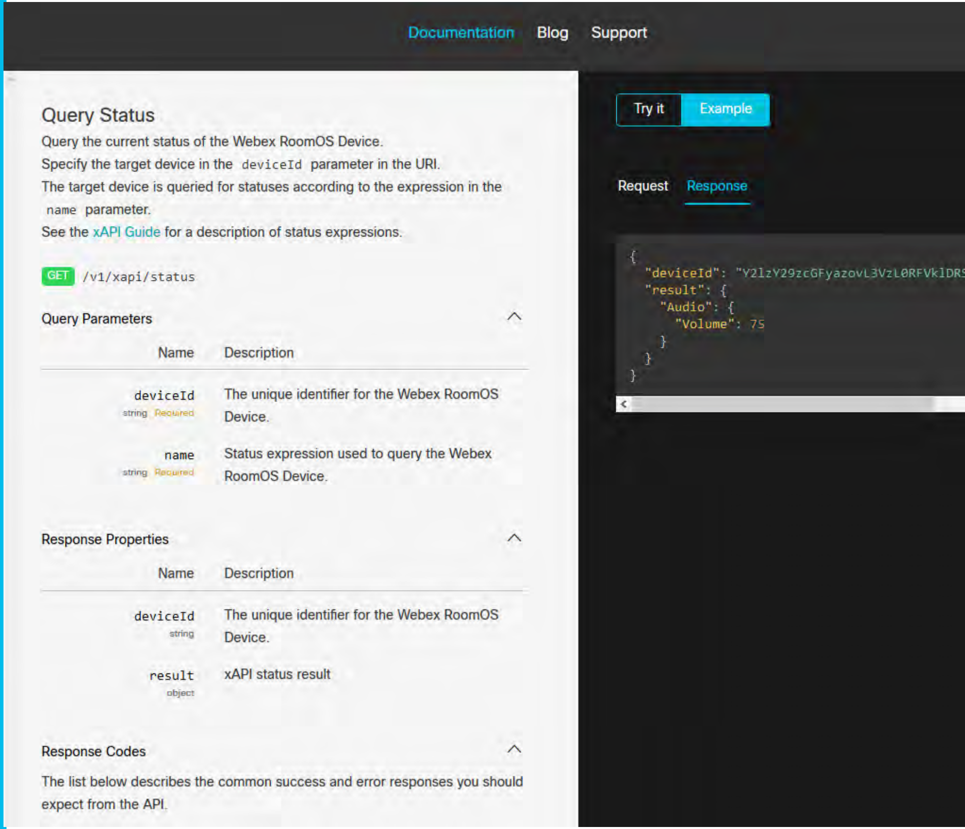
- Introduction
- Configuration APIs through Webex Platform
- TypeScript Improvements
- Rating prompt for capturing User Feedback
- Custom Icons for UI Extentions
- Conclusion



The Open Platform

Cloud / Hybrid Device Management APIs

- Cloud xAPI – Ability to send commands and gather data from devices over a secure cloud connection
- API to allow the creation of Activation Codes
- API to Migrate On Premise Devices to Cloud while preserving key settings
- Key device data visible in Control Hub also being accessible via APIs



Query Status

Query the current status of the Webex RoomOS Device.
Specify the target device in the `deviceId` parameter in the URI.
The target device is queried for statuses according to the expression in the `name` parameter.
See the xAPI Guide for a description of status expressions.

GET `/v1/xapi/status`

Query Parameters

Name	Description
`deviceId` string Required	The unique identifier for the Webex RoomOS Device.
`name` string Required	Status expression used to query the Webex RoomOS Device.

Response Properties

Name	Description
`deviceId` string	The unique identifier for the Webex RoomOS Device.
`result` object	xAPI status result

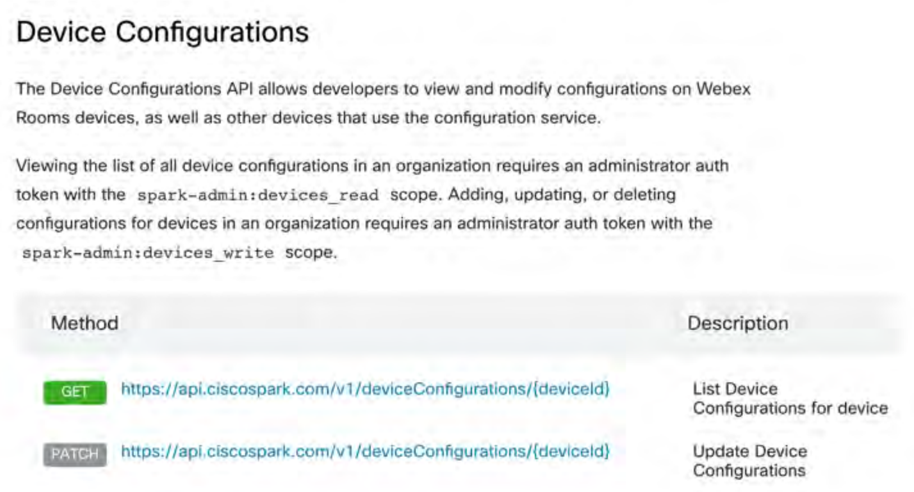
Response Codes

The list below describes the common success and error responses you should expect from the API.

```
{
  "deviceId": "Y2lzY29zcGFyazovL3VzL0RFVklDRS
  "result": {
    "Audio": {
      "Volume": 75
    }
  }
}
```

Configuration APIs

- You can now configure Cloud and soon Webex Edge devices through the Webex Platform without needing direct network access to the device!
- GET and PATCH allows you to easily set configs in bulk and enforce configurations



Device Configurations

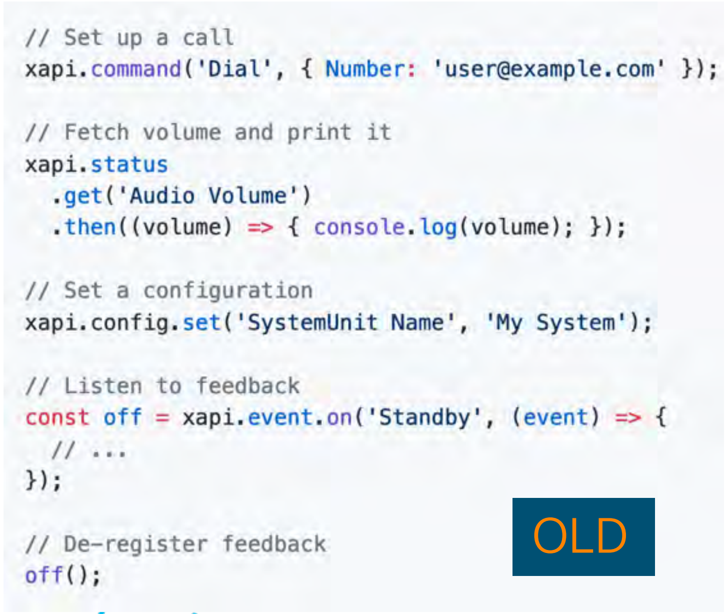
The Device Configurations API allows developers to view and modify configurations on Webex Rooms devices, as well as other devices that use the configuration service.

Viewing the list of all device configurations in an organization requires an administrator auth token with the `spark-admin:devices_read` scope. Adding, updating, or deleting configurations for devices in an organization requires an administrator auth token with the `spark-admin:devices_write` scope.

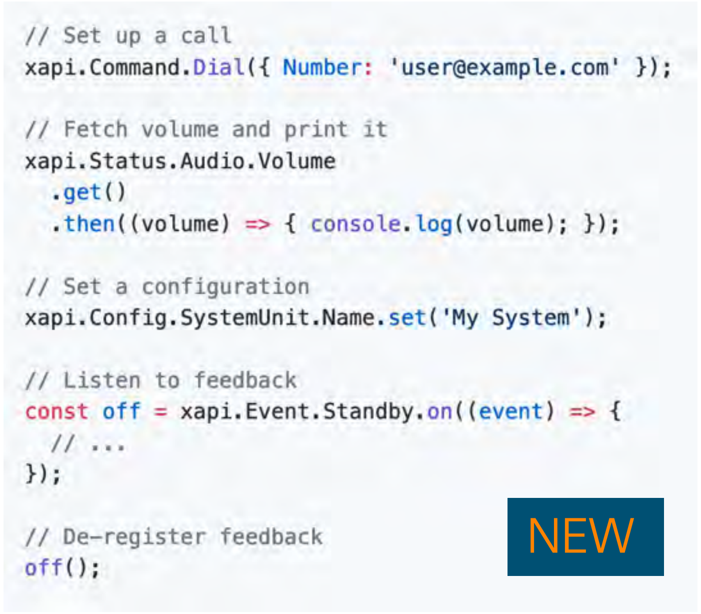
Method		Description
GET	https://api.ciscospark.com/v1/deviceConfigurations/{deviceId}	List Device Configurations for device
PATCH	https://api.ciscospark.com/v1/deviceConfigurations/{deviceId}	Update Device Configurations

Format enhancements for JSXAPI and Macros

- JSXAPI 5.0 (Just Released!)
  - Ported to TypeScript to enable more friendly code writing and reading! (BACKWARDS COMPATIBILE!)
- Macros TypeScript Support Coming Soon!



```
// Set up a call
xapi.command('Dial', { Number: 'user@example.com' });

// Fetch volume and print it
xapi.status
  .get('Audio Volume')
  .then((volume) => { console.log(volume); });

// Set a configuration
xapi.config.set('SystemUnit Name', 'My System');

// Listen to feedback
const off = xapi.event.on('Standby', (event) => {
  // ...
});

// De-register feedback
off();
```



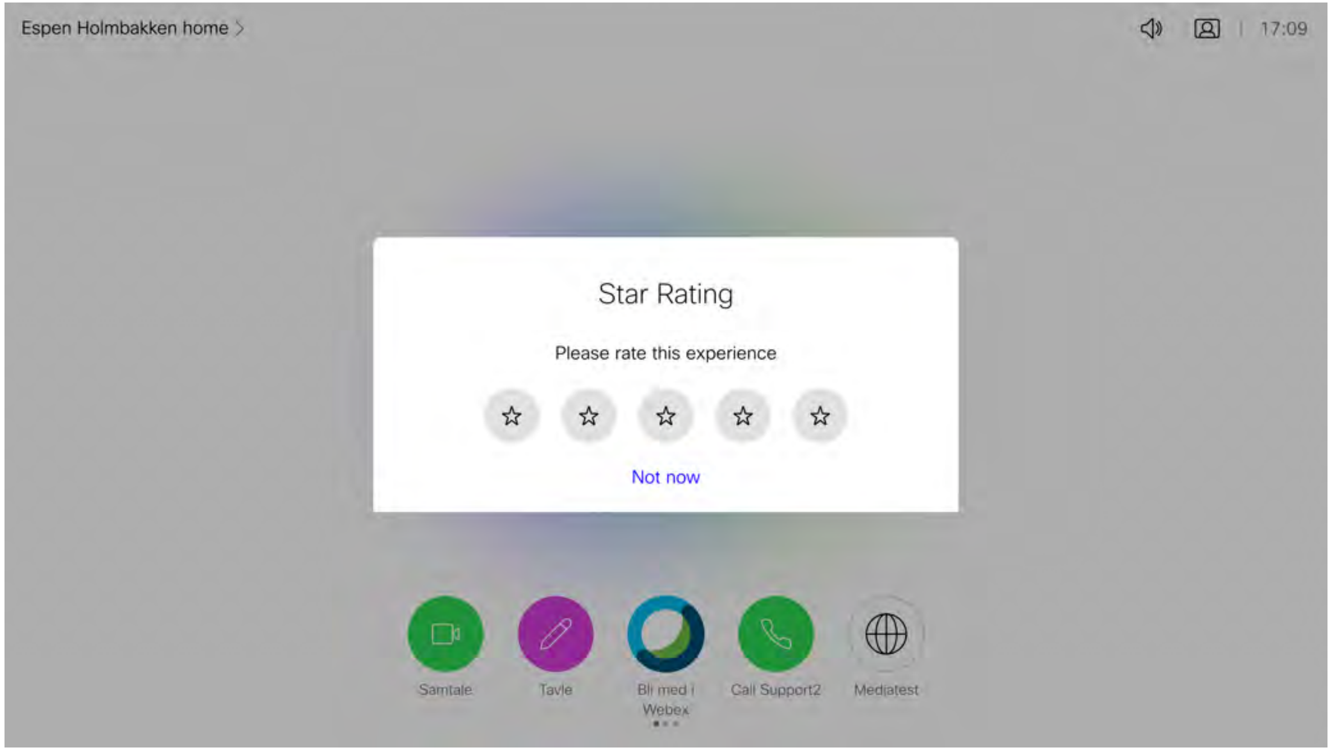
```
// Set up a call
xapi.Command.Dial({ Number: 'user@example.com' });

// Fetch volume and print it
xapi.Status.Audio.Volume
  .get()
  .then((volume) => { console.log(volume); });

// Set a configuration
xapi.Config.SystemUnit.Name.set('My System');

// Listen to feedback
const off = xapi.Event.Standby.on((event) => {
  // ...
});

// De-register feedback
off();
```

Ability to make Hidden Panels for UI Customization

- Already editable via the API!
- xCommand UserInterface Extensions Panel Update
  - Color: <S: 0, 255>
  - Icon: <Briefing, Camera, Concierge, Disc, Handset, Help, Helpdesk, Home, Hvac, Info, Input, Language, Laptop, Lightbulb, Proximity, Record, Spark, Tv, Webex, General>
  - Name: <S: 0, 255>
  - PanelId(r): <S: 0, 255>
  - **Visibility: <Auto, Hidden>**

- Editor setting coming soon!

Rating Prompt for User Feedback



Espen Holmbakken home >

17:09

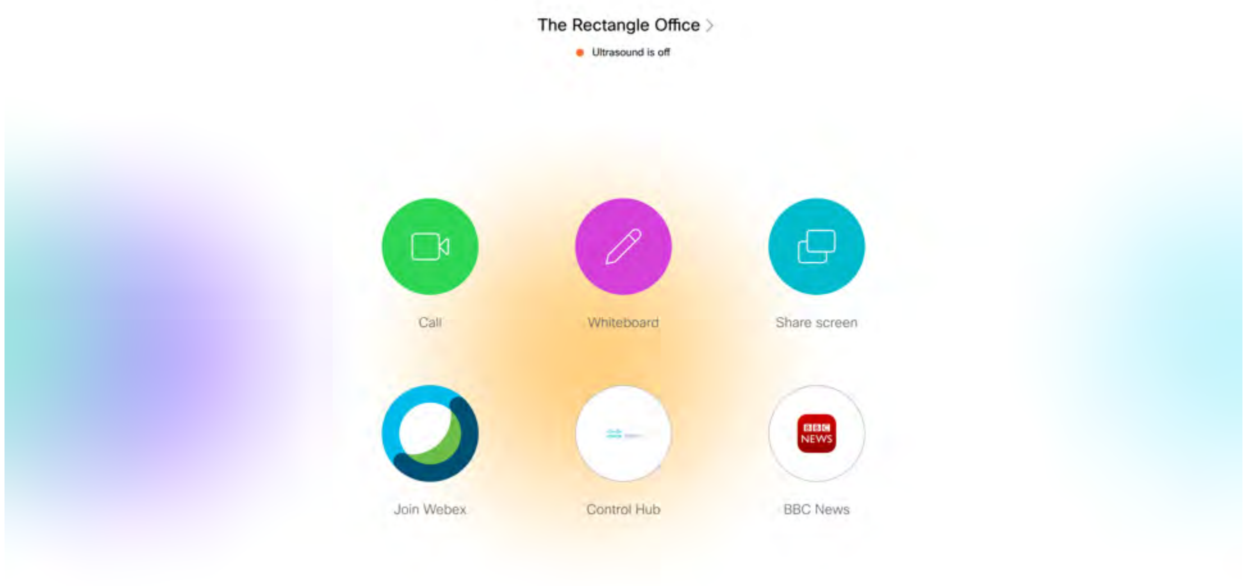
Star Rating

Please rate this experience

☆ ☆ ☆ ☆ ☆

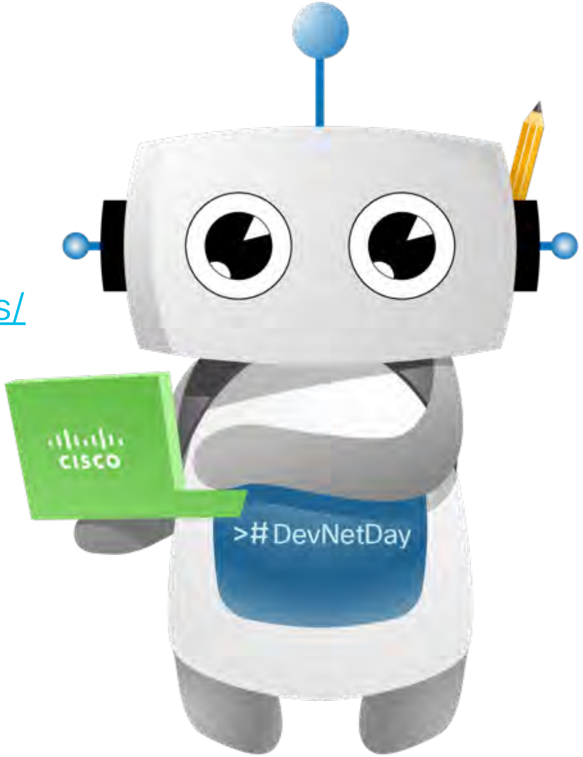
Not now

Custom Icons for UI Extensions



Resources

- UI Extensions Learning Lab
  - https://learninglabs.cisco.com/lab/collab-xapi-controls/step/1
- xAPI samples
  - https://github.com/ObjectIsAdvantag/xapi-samples
  - https://github.com/CiscoDevNet/roomdevices-macros-samples/
  - http://cs.co/roomdevices
- ‘xAPI devs’ community space
  - https://eurl.io/#rkp76XDrG
- awesome-xapi: curated community resources
  - https://github.com/CiscoDevNet/awesome-xapi



Thank you

Possibilities

#CiscoLive | #DevNetDay