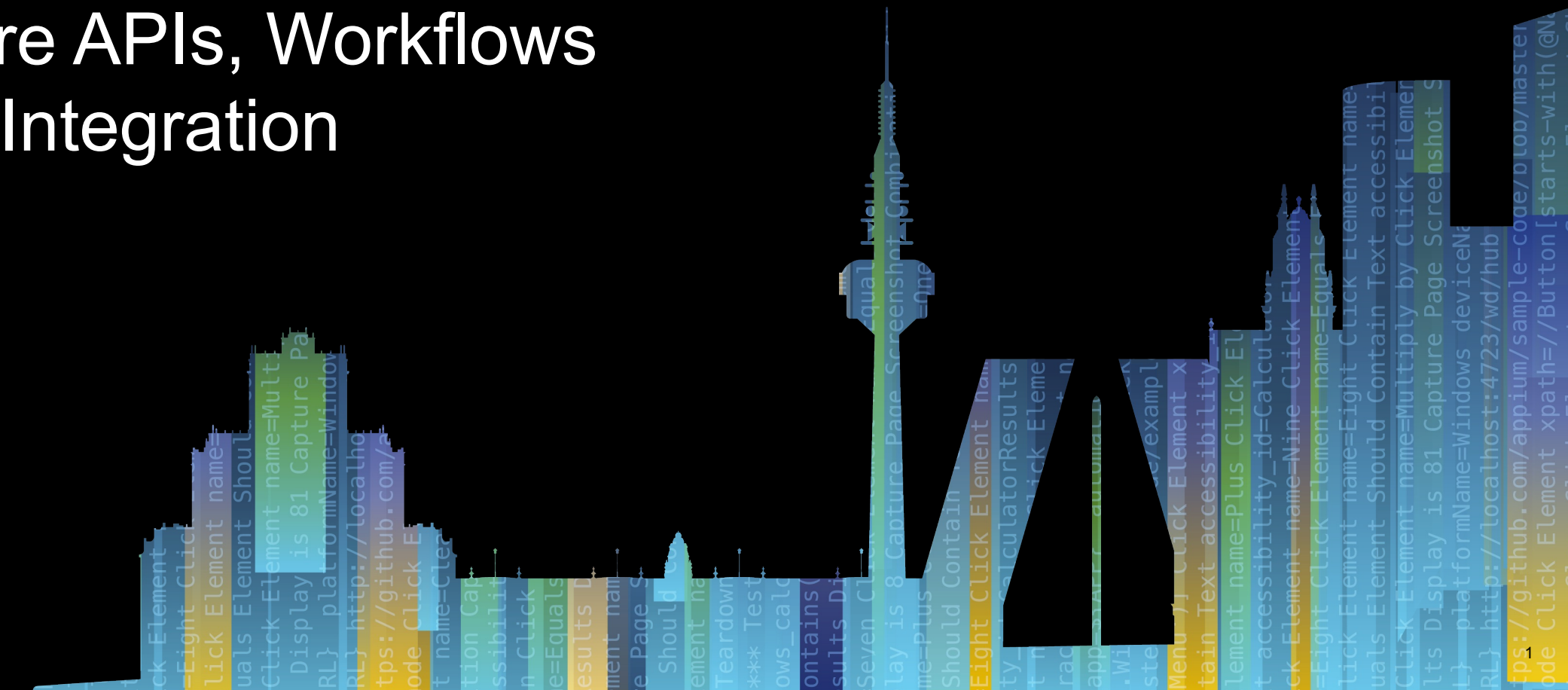
Zebra DevCon 2023

ZEBRA

Fetchcore APIs, Workflows and IoT Integration

Agustín Sevilla
Software Engineer,
Robotics Automation



Background

Zebra DevCon 2023

Zebra DevCon 2023

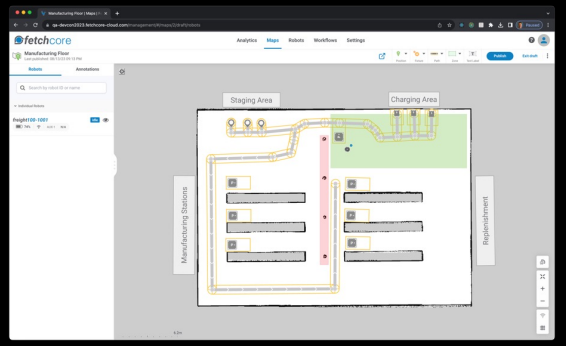
Fetchcore Overview

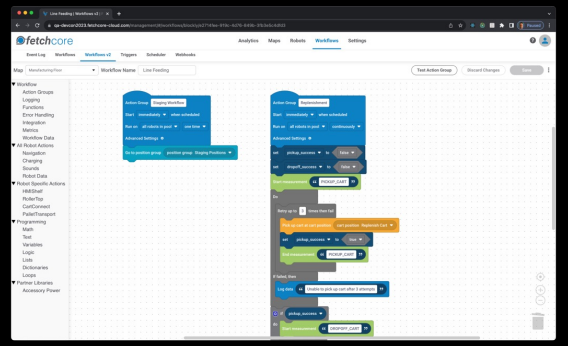
Robot Fleet Management

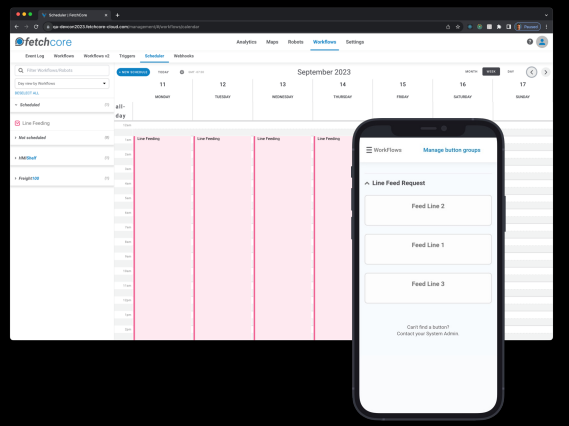
Basic elements

Zebra DevCon 2023

Where	What	When
Maps	Robots	Schedules
	Workflows	Triggers







FetchCore APIs, workflows and IoT integration

Webhooks

Zebra DevCon 2023

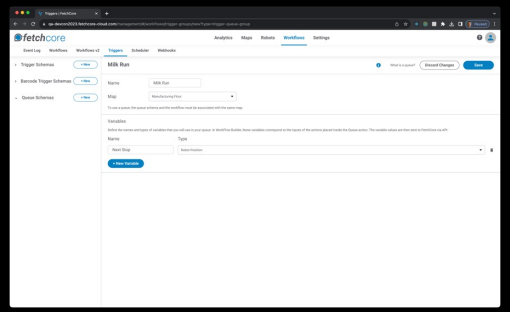
- Webhooks allow integrators to communicate with a 3rd party server over HTTP(S) POST requests from a workflow
- Webhooks can send a user defined JSON payload
- Webhooks can be configured with a bearer token
- Webhooks can be fire and forget, or we can asynchronously await a JSON response
- JSON response can be used as input into workflow

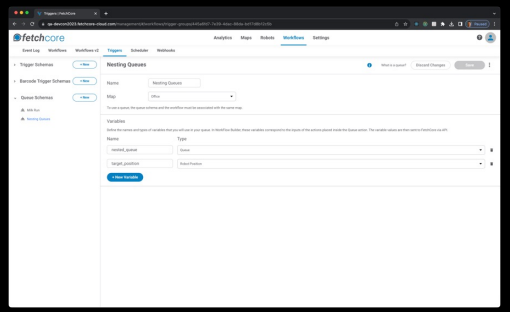
FetchCore APIs, workflows and IoT integration

Trigger Queues

Zebra DevCon 2023

- Trigger Schema
  - Defines a single payload
  - Can be used to "trigger" a scheduled action group
  - May be used in the middle of a workflow





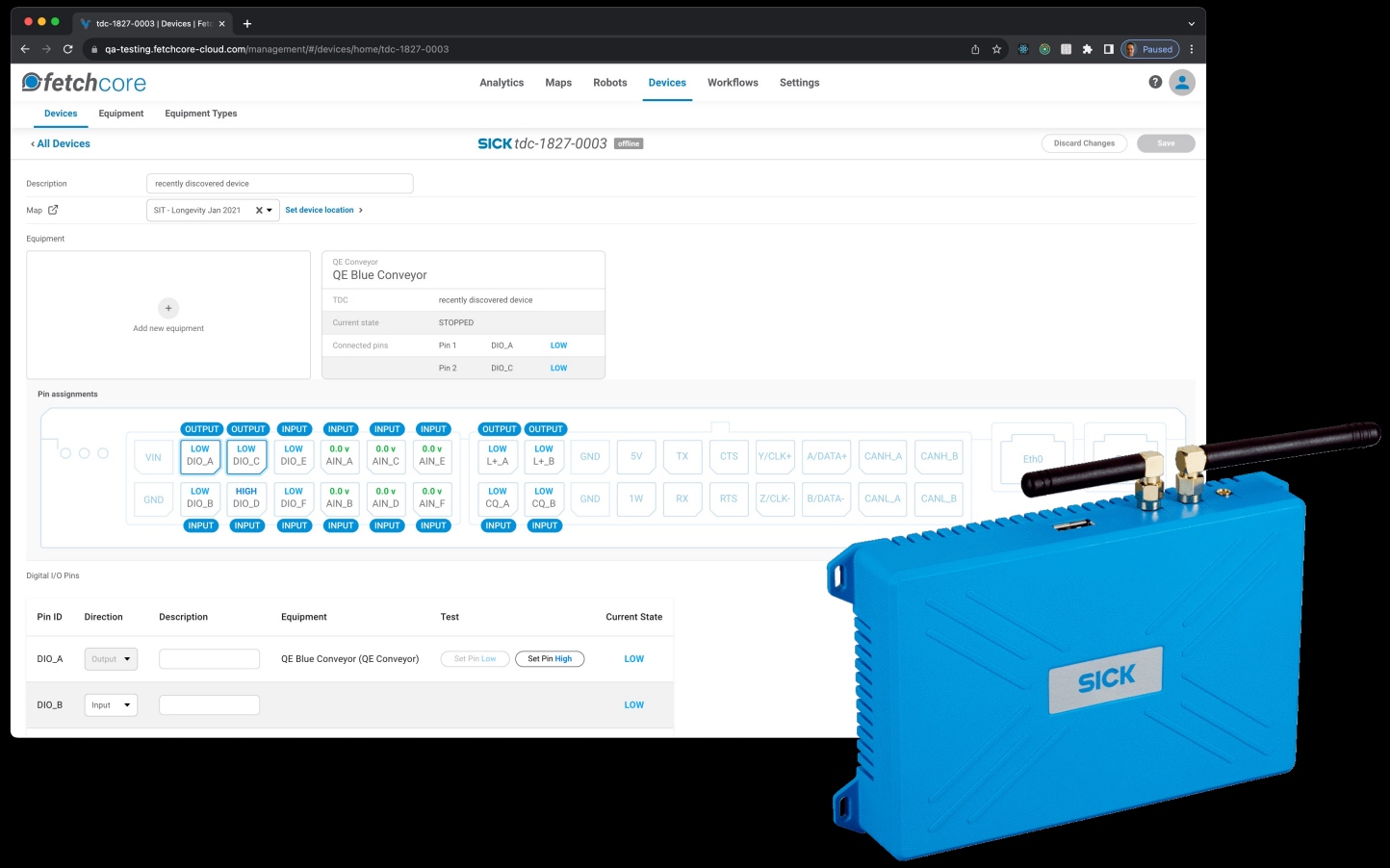
- Trigger Queue Schema
  - Defines queue of multiple payloads
  - Once started, a robot will stay in a queue until it is closed
  - Cannot be used to trigger scheduled work
  - Must be used in the context of a workflow
  - Queue IDs defined on the fly
  - Can be nested

FetchCore APIs, workflows and IoT integration

SICK TDC Gateway

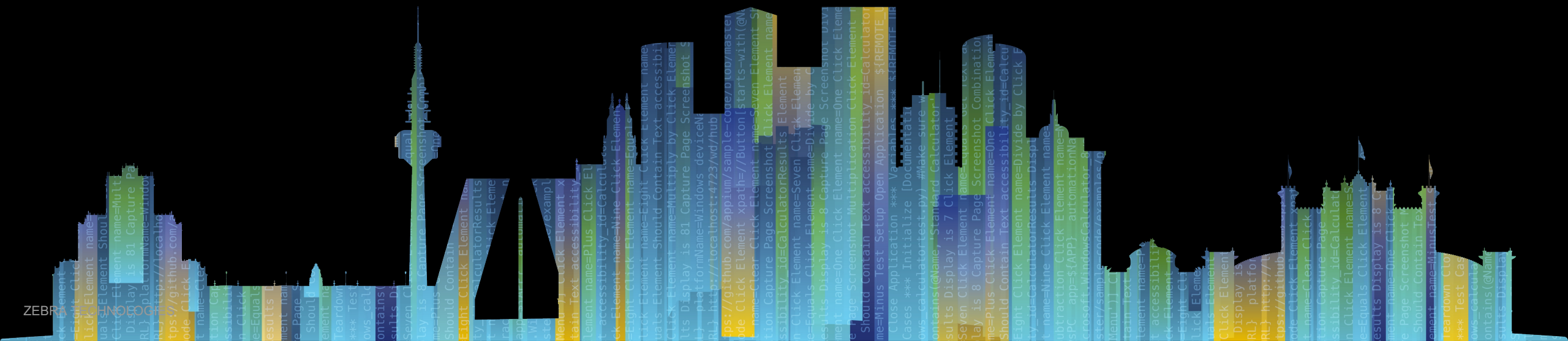
Zebra DevCon 2023

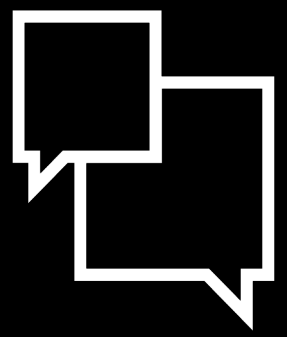
- IoT Gateway Device
  - Allows integration of sensors and industrial controls into workflows
  - Trigger workflows
  - Wireless or Wired connection
  - DIO input/output



Zebra DevCon 2023

Let's get to the demo!





Questions

Zebra DevCon 2023

ZEBRA

Thank You