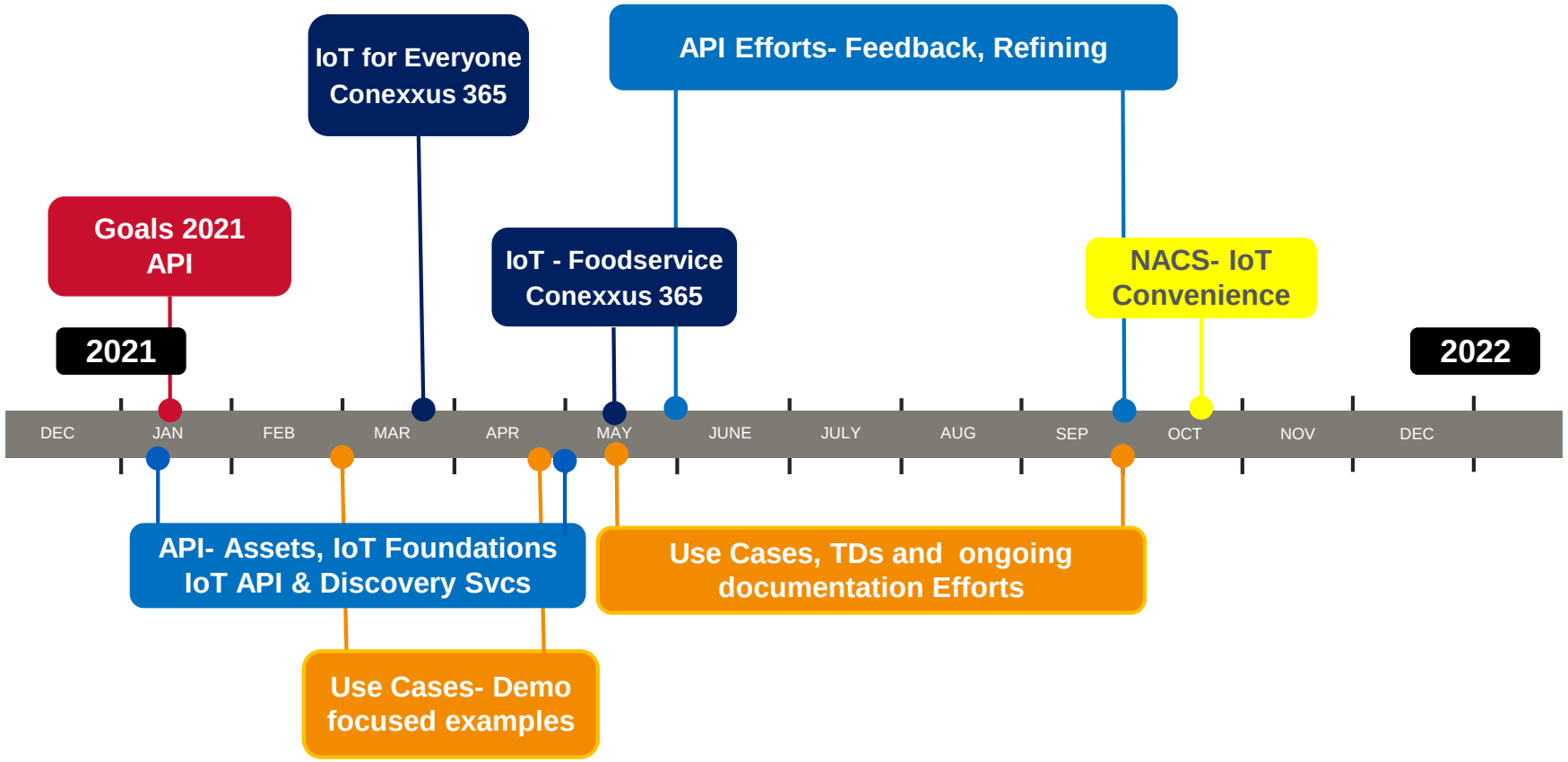
Conexxus IoT WG Update

Tuesday August 3, 2021

CONEXXUS
solve forward

2021- Activity & Goals

Timeline of Activities 2021



CONEXXUS
solve forward

2021 Goals

- **Q1**: Present an API proposal that covers asset info, IoT foundations, discovery services
  - API proposal and fine-tuning work during February and early March
  - IoT WG calls set for February (11th, 25th) and March (11th)
  - IoT for everyone- lots of great practical, real world examples for Convenience
- **Q2**: IoT Demonstration at the Conexxus Annual Conference April 25 – 29
  - Demo discussions and comments during March and April
  - IoT WG calls through March (11th, 25th) and April (1st, 15th)
  - Ongoing efforts through quarter Q2, driving to Q3 initiatives
- **Q3**: NACS 2021 Announcement- A Conexxus IoT platform for Convenience Retail

Conexxus IoT User Stories

Practical, Real-word Example Docs

- Problem definition, expected benefits, Retail stakeholders impacted
- Areas of Focus- Indoor & Outdoor
- Further segmented into:
  - Sales related devices
  - Communication, Services, Facility, Data & Power equipment
  - Food Prep & Food Service Devices
  - Wetstock management (i.e. fuels)

Conexxus IoT Use Cases

Base and Implementation Use Cases

- Provide context to the idea of On/ Off, Open/ Close, Temp
  - Capture basic concepts of state change or status vs how it's being measured (e.g. voltage)
  - Not defining specifics around type of measurement or sensor type
- Next level of Use Cases speak to application of the data
  - E-Stop
  - Door (could be restroom, front entrance, cold box)
  - Temperature (could be roller grill, walk in box, freezer zone, etc.)

Conexxus IoT Use Cases

Basic Use Case Notes…

- Binary- Open/ Close not concerned with sensor type, use for:
  - Restroom door, entry
  - Walk-in cold box
  - Entry door, office door
- Granular Value collection- could be voltage, current, temperature, etc.
  - Temperature for Food/ grill- quality
  - Walk-in- coupled with open/ Close for equipment evaluation
  - Voltage fluctuation or “zero” for various scenarios
- Binary- On/ Off
  - Evaluate for loss of service, loss of power, etc.

Conexxus IoT TDs

TDs- Inside and Outside Examples

- Started simple and basic to establish benefits and common concepts
- Indoor focus on temperature and doors
  - Walk-in cooler temperature and doors for food preservation; doors also for access
- Outdoor focus on safety, security, customer facing items
  - E-stop, printer functionality and health, dispenser security
- Building basic properties, actions and events- expand as we discuss