

Digital Transformation with IoT

Helped a major technology company in building a smart meeting room solution by contributing to solutions development with a variety of digital technologies



CONTEXT

CLIENT

- A multinational technology company

KEY DRIVER

- Workspace digital transformation by creating a collaborative and productivity-enhancing workspace solutions with IoT devices, cloud, and data

CHALLENGES ADDRESSED

- Underutilization of meeting rooms and conference halls
- Ineffective planning & collaboration when organizing meetings
- Inadequate integration of devices in a meeting room
- Dissatisfied teams due to unavailability or wastage of resources

 **SOLUTION****Our client conceptualized and developed a hardware-driven IoT and cloud-based meeting rooms management solution that:**

- Provides a centralized & connected hub device in each meeting room
- Integrates with hardware devices such as accessories and peripherals - Cameras, Audio Devices, and Smart Screens
- Interfaces with Universal Communication (UC) based services - Microsoft Teams and Zoom
- Provides a browser-based application to register, track, and manage devices, users, licenses, and applications

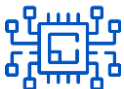
SOLUTION – OUR KEY CONTRIBUTION

APPLICATIONS & INTERFACES DEVELOPMENT



Development of the interface for the hub device, device management web application, and event data management services across the devices

DIVERSE TECHNOLOGIES – IoT, UI, CLOUD



Leveraging best-fit technologies as per the specific needs of the solution – UWP app on-device app, Angular stack for browser-based app, and queuing tools for event data transfer

CLOUD (AWS) INTEGRATION



AWS-based cloud integration with a Kafka queuing setup to effectively manage large amounts of meeting event data and derive actionable insights from data through visual reports

UI IMPLEMENTATION OF RICH VISUALIZATION



Comprehensive performance dashboards/reports developed on Angular 8 and Chart JS to analyze meeting room performance through tracking of meeting parameters such as number of occupants, room status, and device status

TECH STACK

App UI frameworks

Angular 8, Typescript, JavaScript

On-Device UI

UWP shell, WPF, XAML

Services

Python, NodeJS with Restify, Kafka, Java 11 with Spring Boot, Tomcat, AWS

Charting Engine

Chart JS

Data Stores

MongoDB with GridFS, Redis

Cloud

AWS

SOLUTIONS MODULES/FEATURES – REFERENCE VIEW

DASHBOARD & REPORTS



Device List & Status



Device Performance
(Room, Date)



Software Updates



Universal Communication
(UC) Status



Issue Reports



Utilization – Rooms,
People, Devices

DEVICE MANAGEMENT



Connected
Peripherals



Device Configuration
Details



Device Activity



Device Registration
& Update

ADMINISTRATION



User
Management



Software License
Management



Other Apps
Management

END-USER ORGANIZATION OUTCOMES

MAXIMIZED UTILIZATION



of meeting rooms including optimization of number & size of meeting rooms needed in each campus

INCREASED COLLABORATION



Including productivity by streamlining meeting/conference management with intelligent devices

ENHANCED COMMUNICATION



by sending accurate & timely meeting related updates to the participants before & after the meetings

ENGAGEMENT HIGHLIGHT & CLIENT ORGANIZATION BUSINESS OUTCOMES



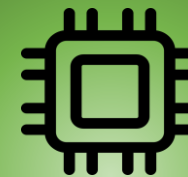
3+
YEARS

Continuous
engagement
across many
releases



~5K
CUSTOMERS

Across US,
APAC, and
Europe



50K
DEVICES

Monitored
across ~5000
customers

Customer Success Briefs

THANK YOU



Digital Customer Experience.