

DECoDe Solution – Dynamic Ecosystem of Connected Devices

Smartly integrate, manage and maintain diverse
device ecosystems

Introduction

With the new set of asset categories coming in, tools which were traditionally used by IT Assets management cannot be extended to all functions of new array of devices. The new requirements in managing and maintaining the assets creates piecemeal. adoption of process in the enterprises. This poses challenges in applying the standard Enterprise workflow and policies across network, locations and roles.

Dynamic Ecosystem of Connected Devices (DECoDe) by IoT WoRKST[™] is a device management solution to manage, monitor, configure and troubleshoot IoT Devices remotely from a consolidated dashboard.



Key AWS services leveraged in reference architecture

AWS IoT Core, AWS IoT Device Management., Amazon S3, Amazon ECR, Amazon Application Load Balancer, Amazon ECS, Amazon EC2, Amazon Cognito, AWS Fargate, Amazon Cloudwatch, Amazon Managed Service for Prometheus and Amazon Managed Grafana.

Key features

DECoDe offers a seamless and integrated view of the IoT ecosystem of the enterprise from a single pane of glass. The DECoDe platform dynamically aggregates PaaS, OEM Platforms and Protocols, to bridge Data silos and creates a unique Enterprise Device Ecosystem.



Device lifecycle and asset management

Supports definition of devices such as gateway, edge device. Helps integrate devices and sets up devices per site with consolidated family management and role based custom dashboards



Device service

Offers remote monitoring, configuration, control, remote firmware management and updates. Eliminates need for technician's presence by sending over-the-air (OTA) commands to device



Monitoring

Generates product based usage reports, including remote condition monitoring of devices and sensors, both at individual and aggregate levels, including alert management – threshold configuration including notifications via email, messages and apps



Role-based access and security

Device and gateway access basis roles, including security – secure connection and on-boarding of IoT devices with authentication and authorization services



Consolidated dashboard

Manages devices in heterogeneous device environment using a single consolidated dashboard



Unified workflow and integration

Defines standardized workflow to onboard and manage all devices in the environment, includes Service Now integration CMDB/ITSM

Benefits

With DECoDe's quick on-boarding leveraging device templating capabilities, the solution can be deployed in a multi-vendor and heterogeneous device environment to introduce a standardized and unified workflow to manage thousands of diverse connected devices.



Consolidate device management

Cloud agnostic single point of device configuration and control, firmware management and rollout including unified process to monitor and manage device globally – ensure secure and rapid IoT ecosystem scalability



Utilize predictive maintenance

Predict failures, remotely manage devices, monitor and preempt downtimes in real-time resolve service problems



Enhance user experience

Role and facility based access, customizable reports and alerts that enable better management of IoT ecosystem



Optimize efficiency

Optimize manpower and cost, reduce downtimes, spare parts inventory and improve first time fix rates



Customer references

Customer 1:

Global Aerospace Major – DECoDe platform enabled end-to-end IoT Device Management services of 26,500 Special Devices

Customer 2:

Major Latin American city – deployment and management of 150K Cameras to enhance outdoor public safety-Implemented DECoDe platform for remote camera and audio sensor monitoring and VMS solutions for video streaming.

The solution is listed on AWS Solution Consulting Offer and is available for customers globally.
To learn more [Click here](#)

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