



Customer success stories

Building Qualcomm's car-to-cloud platform

Customer challenge

Qualcomm engaged Cognizant to develop a car-to-cloud services platform to help automotive manufacturers connect vehicles with customizable and continually upgradeable features that personalize the driving experience for . The challenge included building a platform to enable vehicle tracking and geofencing alerts, more precise positioning for premium navigation and increased processing power to stream content to more displays. These displays can be accessed remotely by drivers at any time to improve system performance, enhance safety and create an immersive experience unique to one's driving habits.

AWS + Cognizant solution description

Working on an AWS platform, Cognizant helped Qualcomm develop a component of the Snapdragon Digital Chassis called Snapdragon® Car-to-Cloud Services, a comprehensive set of cloud-enabled platforms for connectivity, computing, driver assistance and autonomous driving. Through this relationship, Qualcomm Technologies will utilize Cognizant and AWS's deep automotive engineering, research and development expertise as well as its automotive test frameworks to integrate Snapdragon Car-to-Cloud Services for automakers in efforts to accelerate their time to market.

As part of the solution, we leveraged AWS-managed capabilities to build an IoT platform and utilized PaaS services to secure it. Key components used include:

- Amazon IoT Core to support millions of devices
- AWS IoT rules engine to channelize the ingress sensor data to the various AWS Kinesis stream
- Amazon EKS-based cluster to scale our microservices deployment, which include processors, APIs and portals
- Solution based on AWS Well-Architected Framework

It leverages multiple AWS components such as compute (VM, AKS, Lambda), storage (S3, RDS PostgreSQL, DynamoDB), IoT (IoT Core, certificate, routing, etc.), message brokers (SQS, Kinesis, SNS), security (KMS, WAF, Device Defender, etc.) and gateways (IoT Core, API Gateway, etc.)



Outcomes/results

- **Continuous upgrades:** Experience the future of mobility with over-the-air updates. Our cloud-connected platform helps your vehicle always stay ahead of the curve, delivering cutting-edge features and services designed to enhance safety
- **Reduced development time:** Simplify development and accelerate time-to-commercialization with cloud-connected platforms that empower automakers to bring innovative features to life faster than ever before
- **Increased scalability:** Build the future of mobility with scalable platforms. The Snapdragon Digital Chassis offers flexibility and control you need to create vehicles that meet the demands of today and tomorrow

About the partner

Cognizant (Nasdaq-100: CTSI) is one of the world's leading professional services companies, transforming clients' business, operating and technology models for the digital era. We engineer modern businesses to improve everyday life. Our unique industry-based, consultative approach helps clients transform technology, reimagine processes and transform experiences, ensuring businesses remain agile, relevant and ready to run more innovative and efficient enterprises.

With AWS as our partner, we focus on the outcomes that matter most to businesses and underpin our solutions with deep industry experience and market-leading IP. Cognizant brings more than 13,000 AWS-certified professionals, dedicated AWS-certified consultants in 43 countries, hundreds of customer launches and successes and more than 70 transformational blueprints to drive innovation beyond cloud migration.

As a premier consulting partner, Cognizant holds numerous AWS competencies, including AWS Mainframe Migration, AWS SAP, AWS Migration, AWS Financial Services, AWS Healthcare and AWS Life Sciences. Partner programs include AWS Well-Architected, AWS Managed Service Provider, AWS Marketplace Seller, AWS Solution Provider Program and AWS Public Sector Solution Provider.



Cognizant (Nasdaq-100: CTSI) engineers modern businesses. We help our clients modernize technology, reimagine processes and transform experiences so they can stay ahead in our fast-changing world. Together, we're improving everyday life. See how at www.cognizant.com or @Cognizant.

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