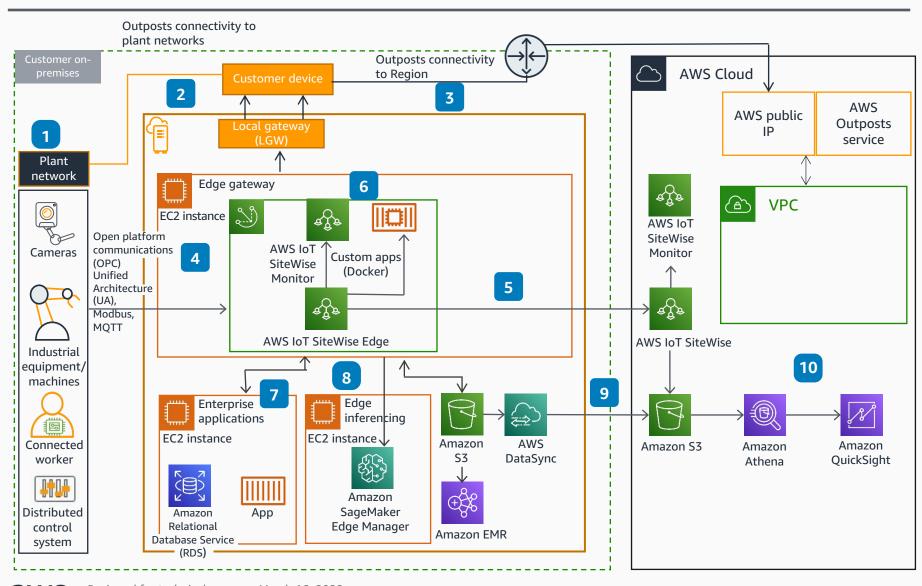
## **Smart Factory on AWS Outposts**

How to build a scalable and secure Internet of Things (IOT)-backed smart factory using AWS Outposts and AWS Regions.



- The plant network connects devices like cameras, equipment, and programmable logic controller (PLC) systems to run plant operations.
- The **Outpost** is located on the factory premises, and connected to the factory network using the LGW.
- The **Outpost** is also connected back to the AWS Region, enabling the use of AWS services in the Region.
- An Amazon Elastic Compute Cloud
  (Amazon EC2) instance on Outposts acts
  as an edge gateway. It runs AWS IoT
  Greengrass and AWS IoT SiteWise Edge
  to facilitate connectivity with the plant
  network.
- The AWS IoT SiteWise Edge component ingests real-time equipment data to the Cloud. It also buffers the data during disconnections.
- Local dashboards and custom applications are deployed on **AWS IoT Greengrass** for time-critical monitoring and processing.
- 7 Enterprise apps and point solutions deployed on **Outposts** as containers can consume data locally from **AWS IoT Greengrass**.
- 8 Amazon SageMaker Neo-optimized models are deployed on Outposts for edge inferencing.
- 9 AWS Datasync is used to automate transfer of data between Amazon Simple Storage Service (Amazon S3) on Outposts and in the AWS Region.
- Amazon Athena and Amazon QuickSight can be used in the Region for running weekly analytics on the data.