



FACT SHEET

# APEXON'S NETWORK OPERATIONS CENTER (NOC) FOR MANUFACTURING OPS ENERGY MANAGEMENT

Control maintenance cost and unleash the true potential of critical assets

## WE ENABLE #HUMANFIRSTDIGITAL

Apexon is a digital-first technology services firm specializing in accelerating business transformation and delivering human-centric digital experiences. For over 20 years, Apexon has been meeting customers wherever they are in the digital lifecycle and helping them outperform their competition through speed and innovation.

Our reputation is built on a comprehensive suite of engineering services, a dedication to solving our client's toughest technology problems, and a commitment to continuous improvement. We focus on three broad areas of digital services: Experience, Digital Engineering, and Data. Apexon also possesses deep expertise in Manufacturing.



## APEXON FOR MANUFACTURING

Energy and resource management is playing an increasingly fundamental role for manufacturers. On one hand, increasing energy expenses are becoming noticeable in production costs, and on the other hand, profitable margins can only take effect if costs are reduced.

Effective energy management in manufacturing is essential to control costs and maintain productivity. Accurate data collection, preferably with IoT technology, is crucial for informed decision-making. Meeting government energy efficiency standards is often necessary for accessing benefits like tax incentives, but it can be challenging without the right tools.



## ABOUT APEXON

- + 5500+ Digital Engineers
- + Headquartered in Silicon Valley
- + 25+ Accelerators and Solutions
- + Backed by Goldman Sachs and Everstone Capital
- + 18+ Global Delivery Centers
- + Additional Locations: New York, Chicago, London, Mexico and India

## APEXON'S NETWORK OPERATIONS CENTER (NOC)

Apexon's NOC is an AI-based immersive accelerator to collect, analyze, visualize and react to insights in near real time to proactively optimize loads, reduce downtime and streamline efficiency.

Our accelerator can play a key role in today's dynamic energy landscape, where disruptions in energy availability and fluctuating prices are common challenges.



Real-time monitoring to minimize potential energy-related disruptions.



An integrated dashboard offering a live feed of your energy assets.



AI-based embedded predictive models to identify gaps and enable preventive maintenance.

## APEXON'S ACCELERATOR IS BUILT ON THE AWS PLATFORM, LEVERAGING AWS SERVICES SUCH AS



Amazon CloudFront



AWS WAF



Amazon API Gateway



AWS Lambda



AWS Glue



Amazon Athena



Amazon Kinesis



AWS IAM



AWS KMS



Amazon SNS



Amazon Aurora



Amazon Redshift



Amazon CloudWatch



Amazon ElastiCache



AWS QuickSight

AWS cloud combined with digital transformation, consulting and business re-engineering services from Apexon can address the key challenges faced by the manufacturing industry, such as cost, poor monitoring, environmental compliance, and energy management and optimization.

## FEATURES

The accelerator comes with three broad feature sets:



### Device Connectivity

It enables energy management within manufacturing operations through IoT connectivity. This connects devices, appliances, and energy sources in factories, providing real-time data for preventive maintenance, security alerts, remote monitoring, metrics tracking, and grid load management.



### Data Processing

It collects data from various sources like sensors, smart meters, and third-party systems. This data is processed to reveal energy consumption patterns, inefficiencies, and optimization opportunities. Real-time processing allows for dynamic energy adjustments.



### Presentation and Business Connectivity

It simplifies complex data through visual narratives via portals and dashboards for easy understanding. The accelerator supports dynamic pricing, automated billing with real-time accuracy, and enables third-party integration under manufacturers' brands for product expansion without significant R&D costs.

## OUTCOMES WE DELIVER



### Cost

Our accelerator helps you correlate energy costs at the machine/equipment, production line, and plant level. By doing so, you can effectively avoid energy demand and supply risks, mitigate price peaks, and eliminate costly penalty charges.



### Preventive

Our AI models are engineered to identify abnormalities and prioritize actions before they become critical issues. We also offer automated optimization of production schedules against energy costs, allowing you to strike a balance between productivity and resource efficiency.



### Real-time Tracking

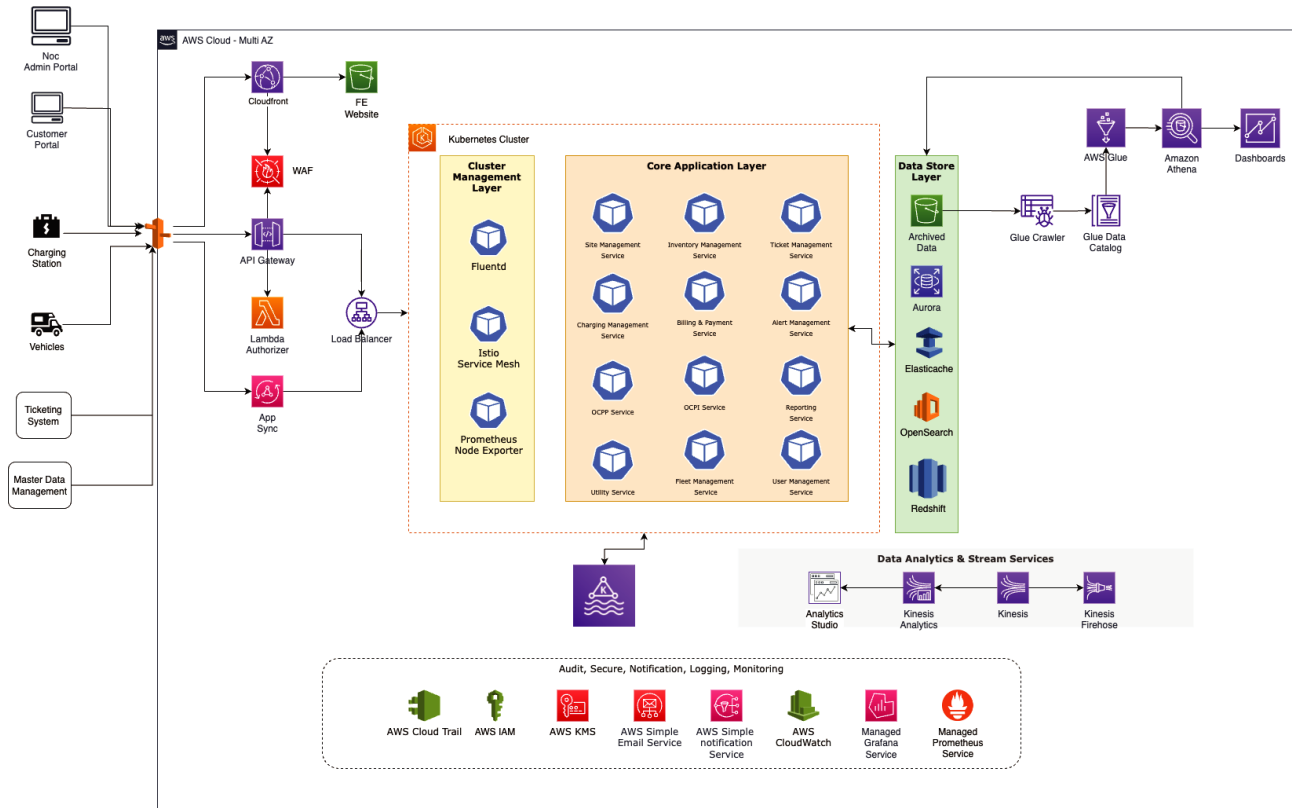
Achieving efficiency demands real-time insights. Our accelerator offers complete visibility of energy consumption through "Smart Meters" and customizable dashboards. You gain the ability to monitor energy consumption as it happens, empowering you to make informed decisions promptly.



### Efficient Ops

Our accelerator is designed for rapid deployment, ensuring that you can start realizing its benefits in no time. Additionally, real-time alerts with performance thresholds keep you informed, enabling proactive actions to maintain optimal operations.

## POWERED BY



## REIMAGINE MANUFACTURING OPERATIONS WITH APEXON

Partner with us to optimize your operations and reinvent supply chains, leveraging our proven methodologies and expertise.



### Here are few ways we bring value:

- **Free Assessment:** Start your journey with a complimentary assessment to identify opportunities for improvement.
- **Opportunity to Avail Partner Opportunity Accelerators (POA) Funding:** We offer opportunities to access Partner Opportunity Accelerators (POA) funding, jumpstarting your modernization initiatives.



### Funding may include:

- **AWS Promotional Credits:** Offset AWS usage costs to reduce your expenses.
- **Cash to Co-Fund Apexon Professional Services:** Partner with us to co-fund the implementation of our professional services.

### CONTACT

## GIVE US YOUR TOUGHEST DIGITAL CHALLENGES



### EMAIL US

We'll make sure it gets to the right person

[AWS\\_EXPERTS@APEXON.COM](mailto:AWS_EXPERTS@APEXON.COM) >



### TALK TO US

Our team is ready to answer your questions

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