



Centralized Plant Asset Monitoring Solution Boosts Operational Efficiency

For Large Oil, Gas and Chemicals Manufacturing Plants

The client is a leading industrial applications and services provider for the manufacturing domain, especially in the hazardous Industries.

Behind the Scenes

Today's plant assets such as fuel tanks, pumps & valves, motors, energy meters, network devices, surveillance cameras and more are connected in a complex ecosystem. Smarter management of these assets directly contribute in saving energy, executing quality production and reducing cost. By managing all assets over their life cycle in a centralized manner, you can get ahead of the curve in plant uptime, security, personnel security and efficiency.

Centralized Asset Monitoring Powered With IoT Is the Next Big Thing for Plants

1 Strategy and Objectives

The client was looking for a mechanism for the Central Operations team to continuously monitor assets – plant personnel and critical equipment - in real-time. A centralized asset monitoring platform was required to ensure high yield.

- **Continuously monitor vital performance parameters to improve asset uptime**
- **Increase the security of the plant via real time asset tracking and video surveillance**
- **Improve the health & safety of employees of the plant**

2 Value Chain

For its plants, the client was looking for an on-premise solution and a centralized monitoring platform that would integrate with its wide variety of assets.

- **Secure management of all the deployed assets**
- **Centralized platform**
- **Security and surveillance**

3 Enablers

Happiest Minds developed a Centralized Asset Monitoring platform that monitors, manages, and provides alerts and reports on the status of various industrial assets.

- **Zone Management** – Graphical (map) representation of the entire factory layout with division into logical zones
- **Condition monitoring of assets** – Monitoring of various asset parameters (temperature, vibration etc.) including configurable alarm thresholds and other alerts
- **Personnel Tracking** – Historical tracking of personnel movement within the factory premises, along with the real-time tracking through integration with ACS and RFID Servers
- **Video surveillance** - Basic features such as video archive, still or streaming modes, full motion control as well as advanced features such as face detection, motion detection, line crossing, etc.

4 Digital Capital Delivered

The centralized asset monitoring platform now enables the client to monitor assets and critical components at any time or place. Optimizing daily maintenance tasks have become effortless. The right information is now available at the right time to make informed decisions.



**Increased reliability
with better monitoring**



**Improved security
standards and
regulations**



**Reduced capital and
operating
expenditures**

ABOUT US

Happiest Minds, the Mindful IT Company, applies agile methodologies to enable digital transformation for enterprises and technology providers by delivering seamless customer experience, business efficiency and actionable insights. We leverage a spectrum of disruptive technologies such as: Big Data Analytics, AI & Cognitive Computing, Internet of Things, Cloud, Security, SDN-NFV, RPA, Blockchain, etc. Positioned as “Born Digital . Born Agile”, our capabilities spans across product engineering, digital business solutions, infrastructure management and security services. We deliver these services across industry sectors such as retail, consumer packaged goods, edutech, e-commerce, banking, insurance, hi-tech, engineering R&D, manufacturing, automotive and travel/transportation/hospitality.

Headquartered in Bangalore, India; Happiest Minds has operations in USA, UK, The Netherlands, Australia and Middle East.

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