

Case study: Process automation

Solution: Anybus X-gateway – PROFIBUS Master – Modbus TCP Server

Country: India

Company::Hindustan Petroleum Corporation Limited (HPCL)

HPCL's partner: UL Group



Benefits:

- Real-time communication between Modbus TCP/IP and PROFIBUS networks
- Minimal downtime during the integration process
- O Improved operational efficiency

Bridging the Gap

Learn how Hindustan Petroleum Corporation Limited (HPCL) used the HMS' Anybus Gateway to overcome connectivity challenges and improve operational efficiency.

Hindustan Petroleum Corporation Limited (HPCL) operates one of India's largest and most sophisticated refineries in Visakhapatnam (Vizag). To maintain high operational standards, efficient and reliable communication between various control systems is essential. HPCL needed to integrate its Substation Automation System (SAS) with Siemens Siemocode systems, which required bridging different communication protocols.

Connectivity challenges

HPCL faced significant challenges in their integration project, including:

- Bridging the communication gap between the SAS using Modbus TCP/IP protocol and the Siemens Siemocode systems operating on the PROFIBUS protocol.
- Achieving seamless and real-time communication between these disparate systems.
- Minimizing operational downtime during the integration process.
- Ensuring enhanced system monitoring and overall operational efficiency.



Overcoming connectivity challenges with the Anybus Gateway!

HPCL chose the Anybus X-gateway AB7629 to address their integration challenges, enabling seamless data exchange between the Modbus TCP/IP protocol used by SAS and the PROFIBUS protocol used by Siemens Siemocode systems. The engineering team conducted a thorough assessment and developed a detailed implementation plan to ensure a smooth integration process. The gateway was strategically installed to minimize operational disruption, configured for accurate data translation, and tested to ensure reliability and real-time performance.

The integration enhanced operational efficiency by streamlining system monitoring and data flow, leading to improved decision-making and safety protocols while minimizing downtime. The Anybus X-gateway's protocol bridging capability, reliability, ease of integration, and scalability help ensure HPCL's infrastructure is prepared for future expansions and technological advancements.





Learn more at www.hms-networks.com/anybus, www.hindustanpetroleum.com and ulepl.com

