Oil & Gas



Eliminate Down-time and Improve Quality

Adroit Technologies

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Adroit Solutions

Adroit Technologies concerns itself mainly with R&D, Production, Sales & Marketing, Training and Support of software products for Automation, SCADA, MIS and MES solutions. In addition, Adroit Technologies has a professional services arm, known as Adroit Technologies Technical Services that consults in and develops customised industrial IT, MIS and MES solutions for customers.

The **Oil & Gas Industry** is a vast and complex one and the Adroit SCADA is ideally suited to assist in the efficient monitoring and control of even the most complicated production plant.

The rigid and quality driven nature of this industry is ideally suited to the Adroit SCADA/HMI product. The time tested and proven reliability of the product sees Adroit being used by large producers to safely run these valuable and strategic assets.

The Adroit architecture and openness offers companies a unique capability of not only traditional SCADA/HMI functionality but the ability to integrate all aspects of their operations. By adopting a more holistic approach to Operations Management significant savings and operational efficiencies can be realised.

In this sector, Adroit is uniquely placed to ensure a superior quality of supply in all aspects of the operations and management of these facilities.

Adroit SCADA Capabilities and Benefits:-

- Process Visualisation
- Process Events and Alarming Management
- Quality Management
- Historical Data Logging and Trending
- Fully Object orientated
- Process Improvement / Built in Auditing functionality
- Reporting and Analysis
- Integration into Business Applications

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Target Areas	Challenges	Solutions
• Pipelines • Refineries • Storage Facilities • Tank Farms • Wells	• Process Management • Process Efficiency • Predictive Maint. • Remote Monitoring • Reporting	• SCADA • PLC • HMI • LVS • High Power VSD



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Sasol Gas, South Africa

Sasol Gas markets both natural and methane rich gas, which are transported via a pipeline network to end-users.
It operates and maintains a gas supply network through 2,500km of pipeline, including the 865km cross-border pipeline linking the gas fields in Mozambique to the Sasol Gas network in South Africa.

The Sasol Slurry Phase Distillate Process TM (SPD) is at the core of Sasol's GTL (gas-to-liquid) technology.

The three stage process combines three leading proprietary technologies. Natural gas is combined with oxygen to form a syngas which is then subjected to a Fischer-Tropsch conversion, resulting in waxy Syncrude which is then finally cracked down to produce the end product.

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PetroSA, South Africa

PetroSA is South Africa's national oil company. It owns, operates and manages South Africa's petroleum industry commercial assets. A pioneer in GTL (gas-to-liquid) technology, PetroSA owns and operates one of the world's largest GTL refineries.

GTL technology is recognised throughout the world for producing the "cleaner" fuels, through an environmentally friendly process.

PetroSA is currently at an advanced stage of a project that could see the establishment of a world-class crude refinery in South Africa's Eastern Cape province. The project, known as Project Mthombo will create the biggest refinery in Africa

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FFS Refiners, South Africa

FFS Refiners is the largest supplier of industrial heating fuels in South Africa. They market products for a wide variety of uses, including glass making, brick making, steam raising in boilers, billet re-heating, baking, incineration, laundry, road-mix heating, lime kilns, and sand and stone drying. Currently over 300,000 tons of fuel oil is supplied per year.

FFS has six process plants and seven storage depots situated throughout South Africa. The processing facilities utilise a full range of technologies from thermal evaporation, static separation, low and high-speed centrifugation, filtration, blending, distillation and hydrogenation to cracking in order to achieve a wide range of products to exacting specifications. In addition there are facilities for processing oil effluent water.

Each process operation or branch has a fully equipped laboratory where analysis is carried out on each and every batch of fuel that leaves the plant.

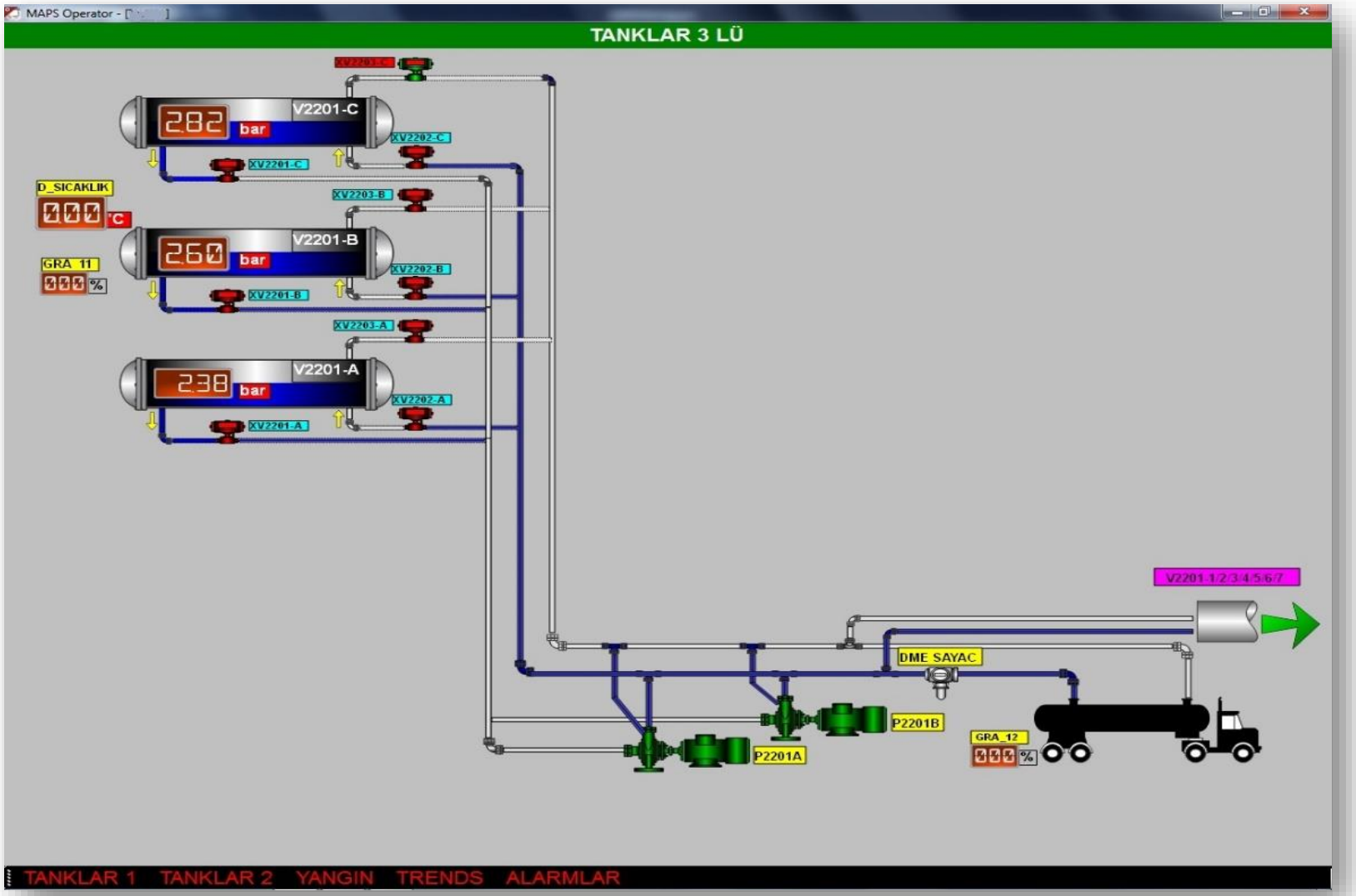
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Tank Farm Control System, Turkey

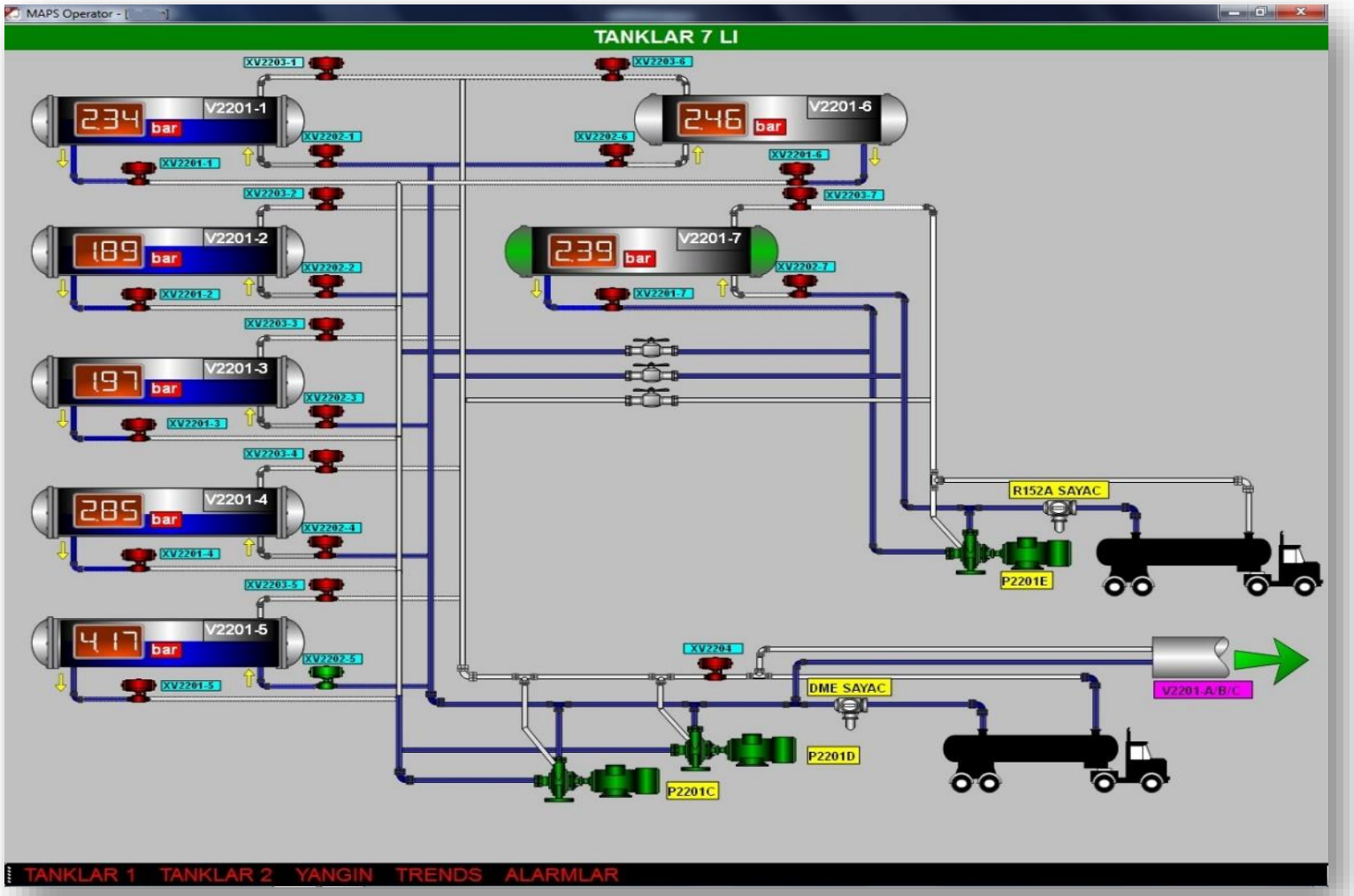




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Tank Farm Control System, Turkey





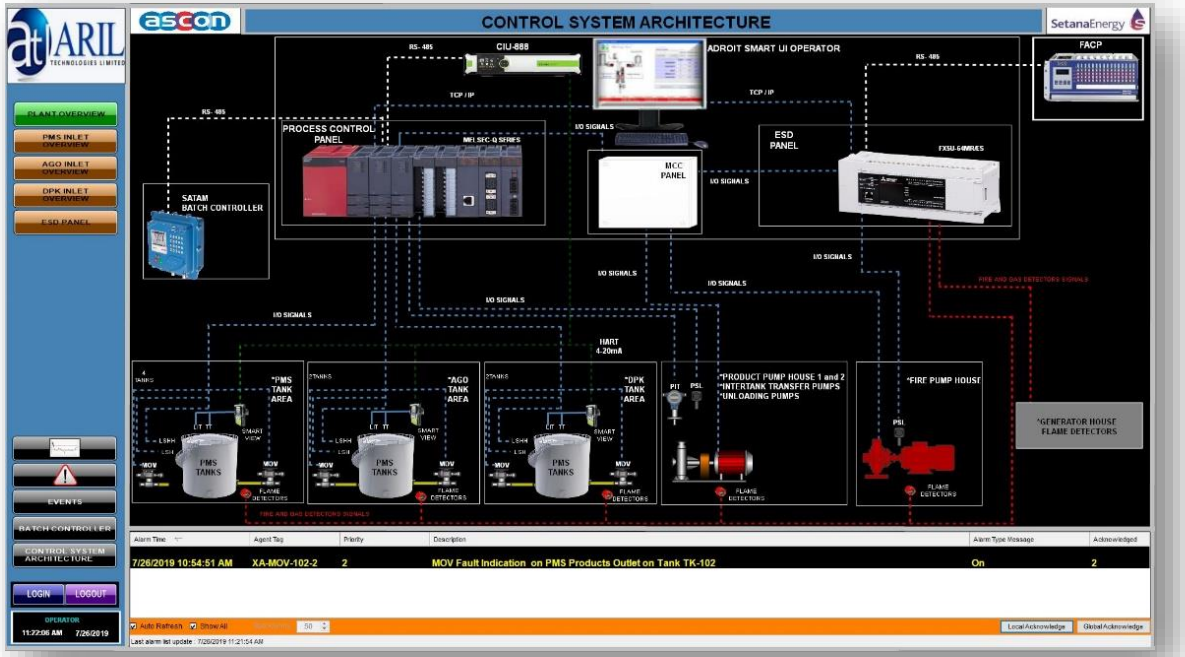
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ASCON Oil, Nigeria

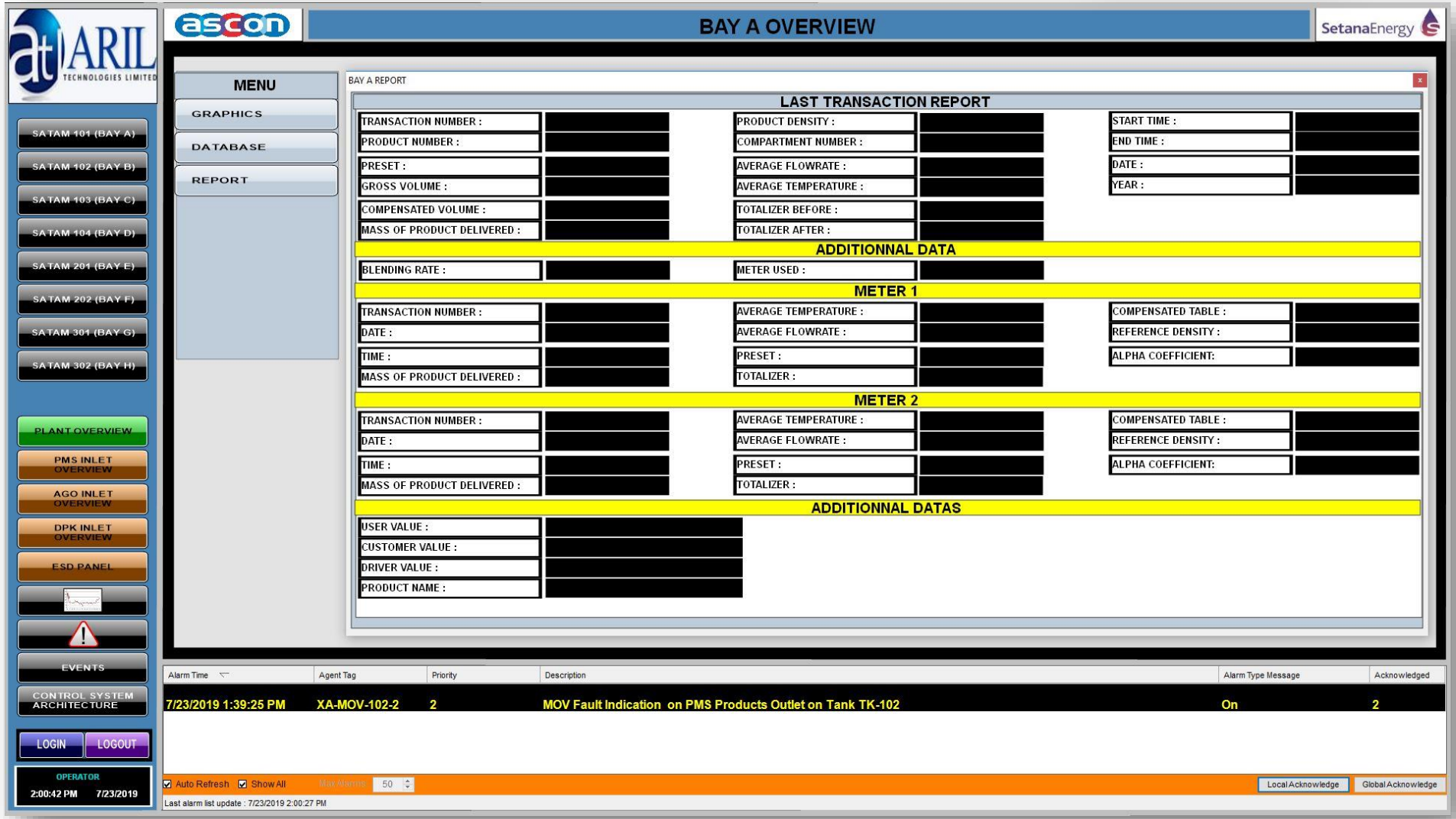
Solution

- The Adroit SCADA Software along with the Mitsubishi Electric PLCs MELSEC iQ-F for the Emergency Shutdown and Firefighting Systems
- The MELSEC-Q Series is used for the process control of the tank farm (White product truck loading area) is equipped with 4 Loading Islands (i.e., 8 Loading Bays)
  - Six (6) Loading Bays for Premium Motor Spirit (PMS)
  - One (1) Loading Bays for Dual Purpose Kerosene (DPK)
  - One (1) Loading Bay for Automotive Gas Oil (AGO)



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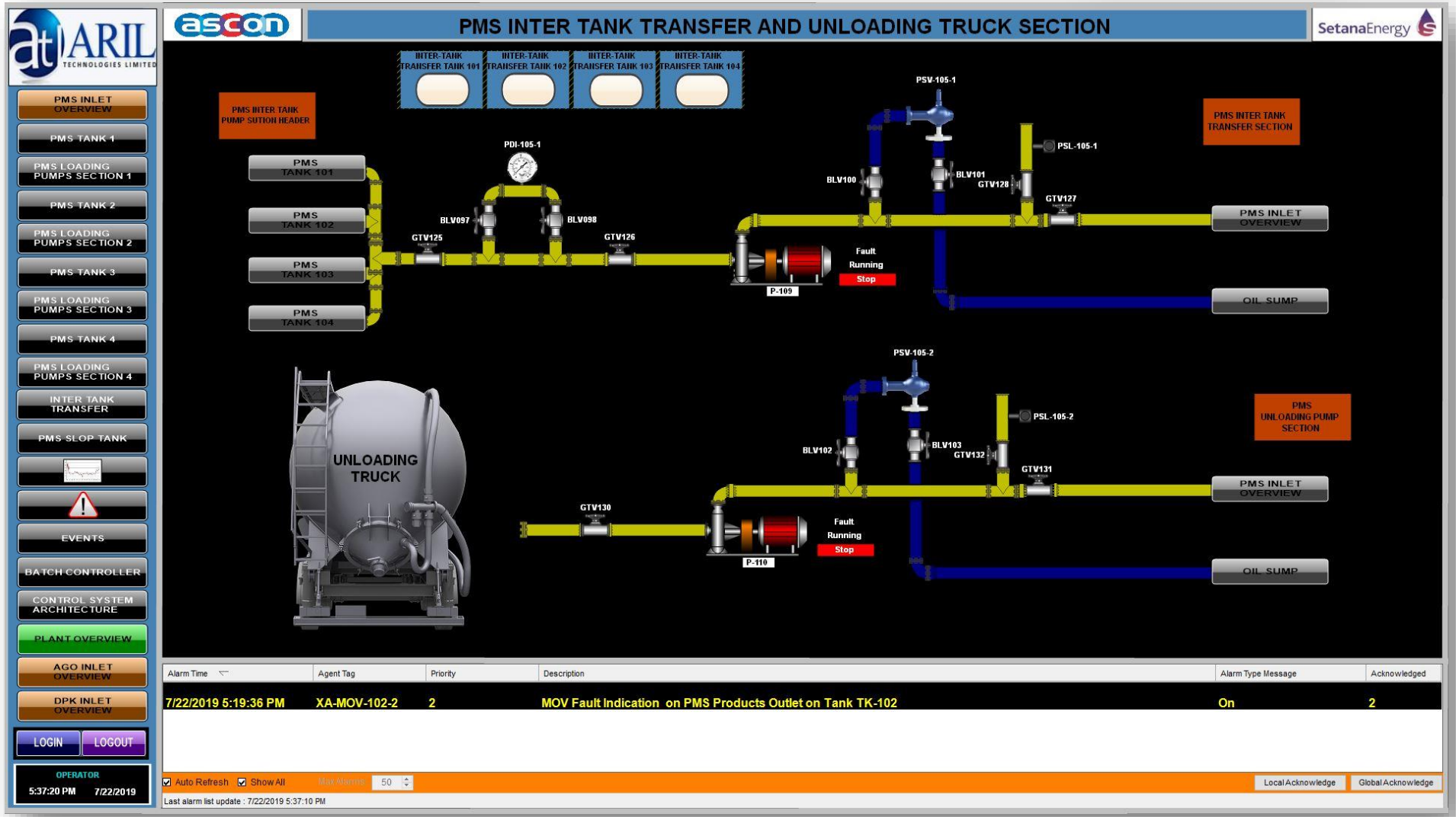
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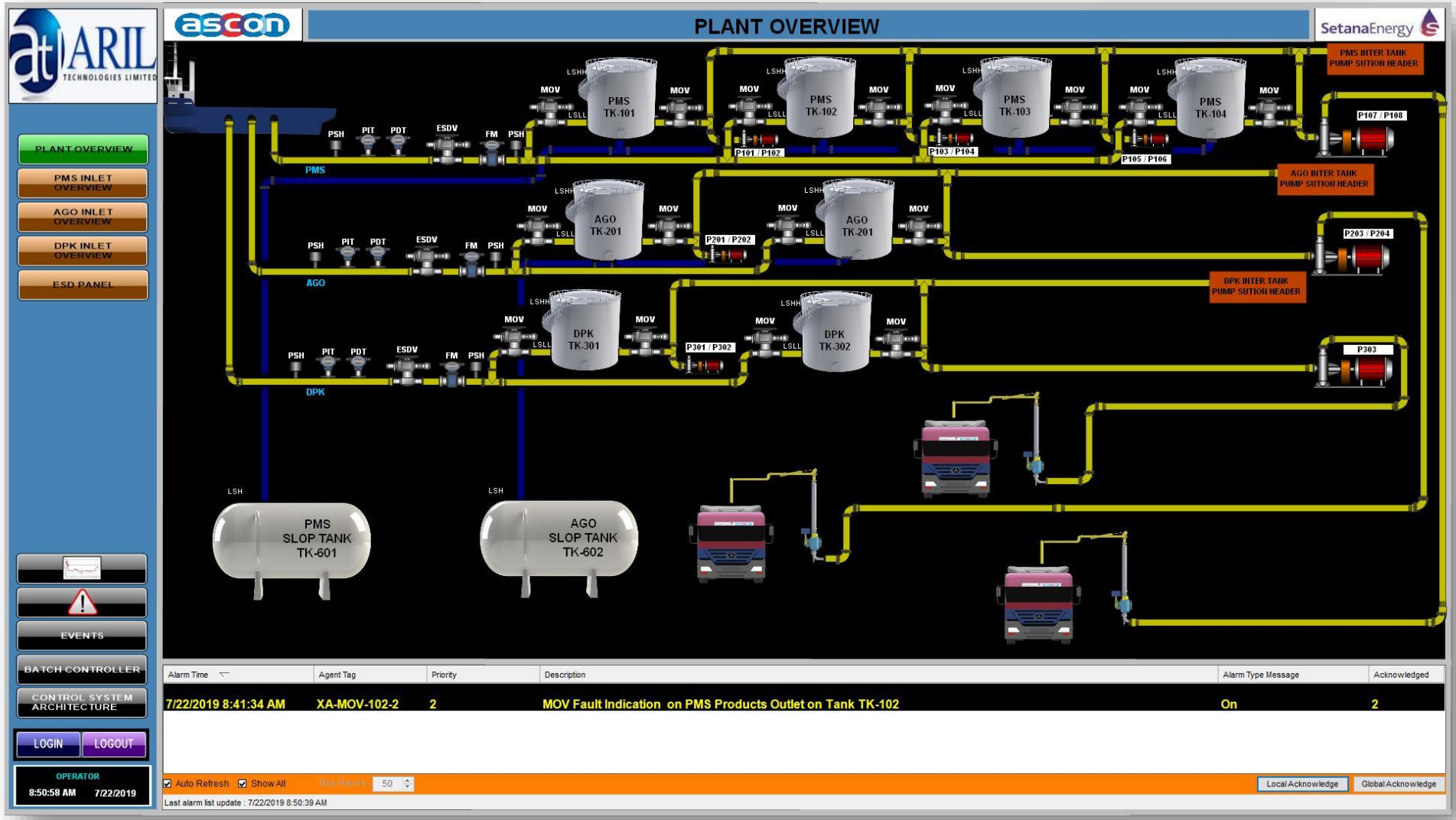
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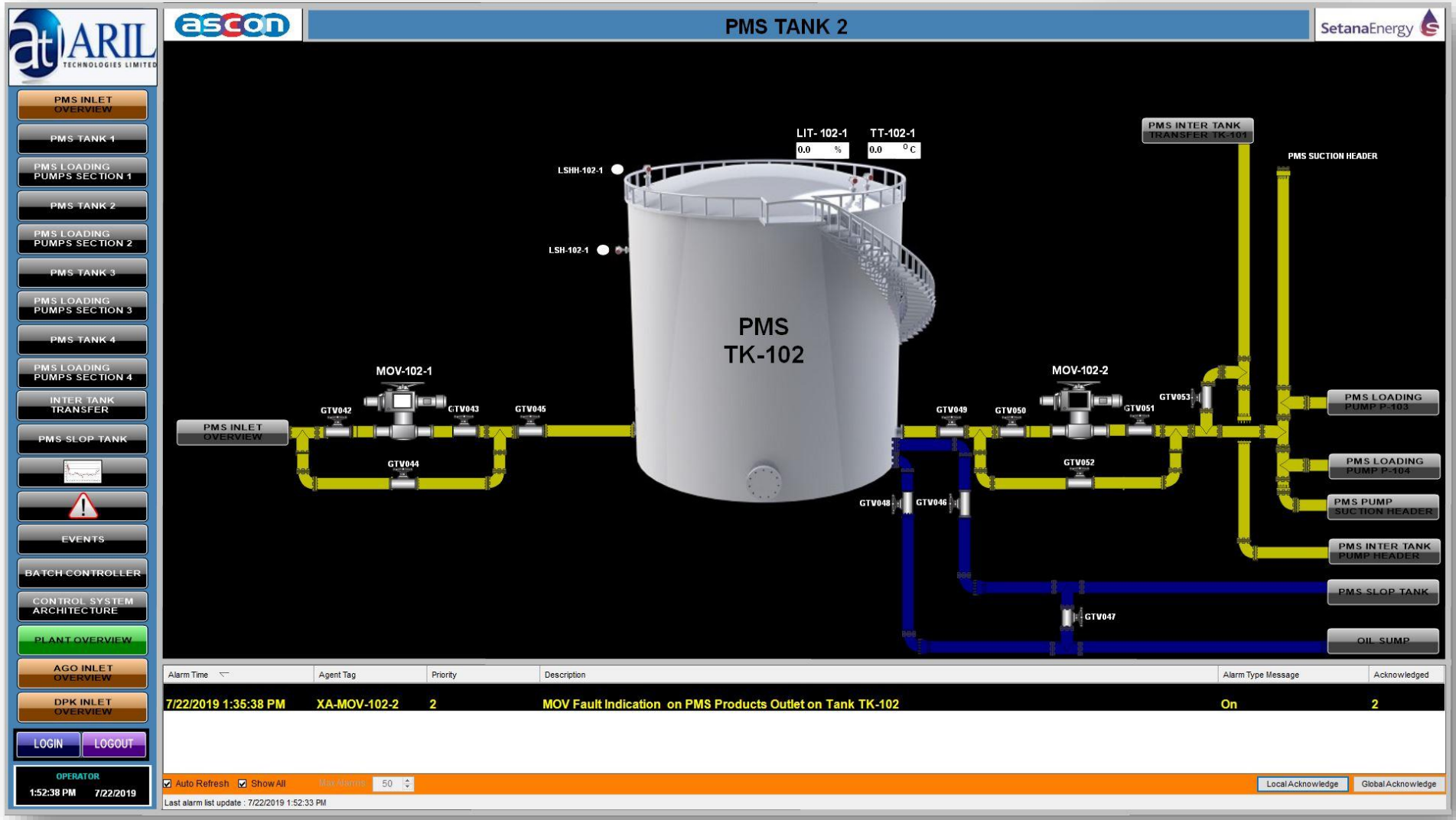
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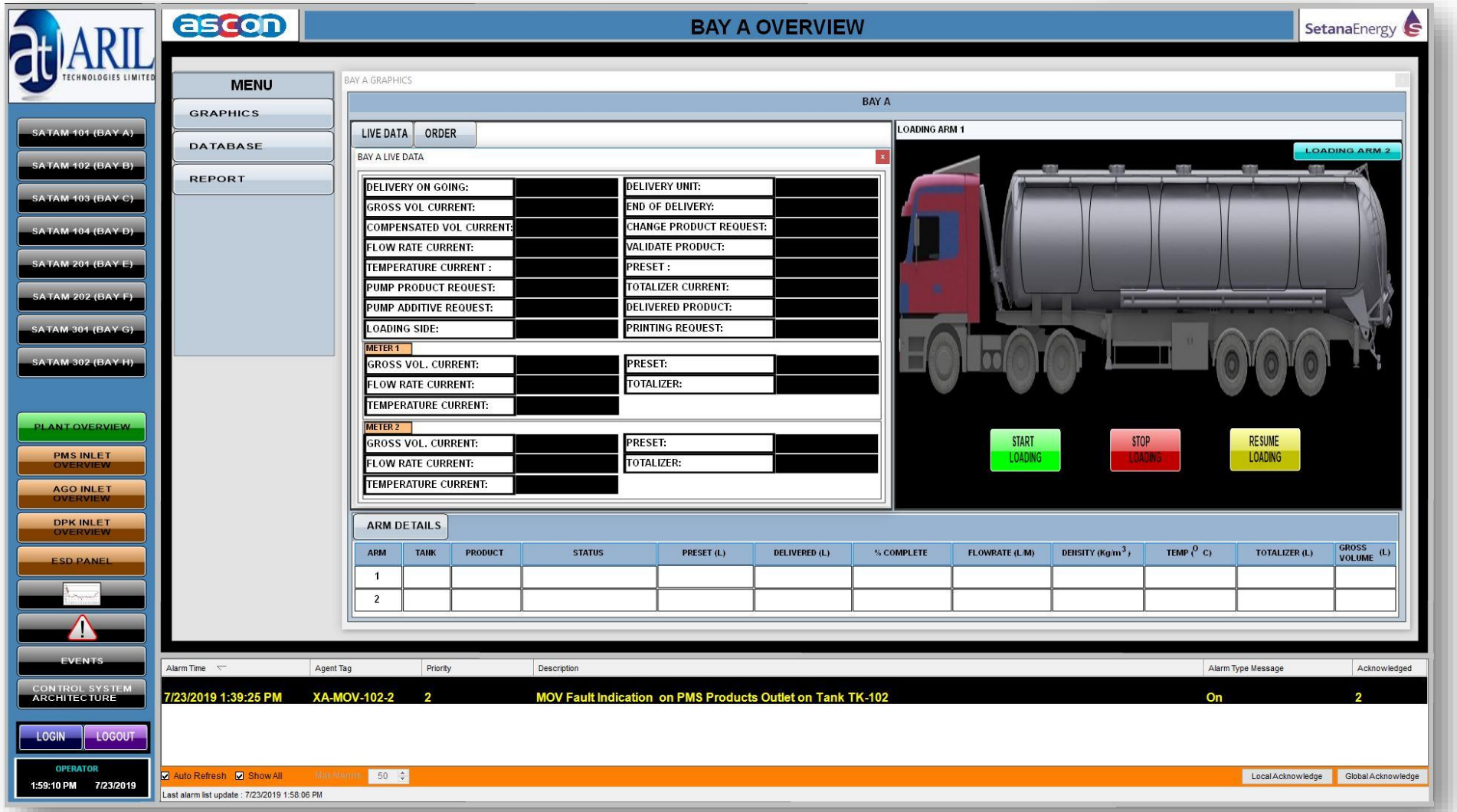
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