

GFS Crane CIM

ATM Site Infrastructure Management



Data Sheet

October, 2016

ATM Networks: Operating Challenges

An ATM Network is a classic illustration of distributed capital intensive sites. Running into thousands, there are certain unique challenges faced by the owner/operator of this network.

- The ATMs need high levels of surveillance
- ATMs are required to be operational 24x7 for all 365 days in a year
- Many of the ATMs, particularly in emerging markets, are situated in regions having occasional power outages or poor power quality conditions.

Most off-branch ATMs in emerging markets are housed in a kiosk with surveillance cameras, bright lights during nights, access and burglar control systems, UPS, Gen-sets, air-conditioners and has a security guard manning the site 24x7, through the year.

This makes ATM operations costly and unprofitable. This has inhibited spread of ATMs in rural areas, where daily transactions per ATM are fewer. Worse, these costly provisions have not prevented ATM thefts and situations of non-operational ATMs when UPS and gen-sets are not working after a power outage.

GreenField Software Private Limited (GFS) is pioneering next generation Data Center technologies and Critical Infrastructure Management software. Our product portfolio of GFS Crane software - powered by IoT, Sensor Analytics & Business Intelligence- has been built for the new Industrial Internet Age.

Our customers have distributed capital intensive sites like Data Centers, ATMs and Telecom Facilities which operate 24x7 through the year and cannot afford failures. Their infrastructure comprises of expensive equipment requiring high security, are energy intensive and costly to operate and maintain in manual mode. GFS Crane is a vendor neutral and centralized platform for Intelligent Infrastructure Management for such environments.

For more details, please write to:

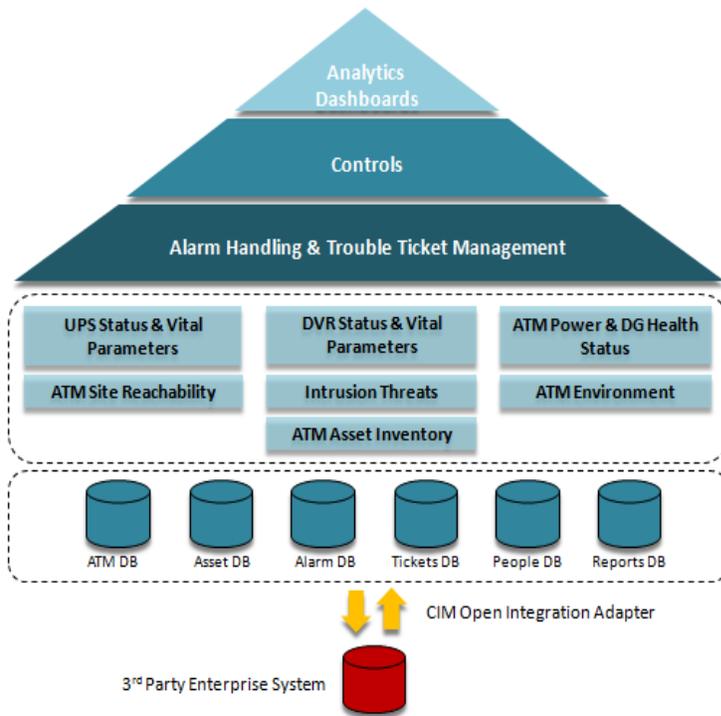
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GFS Crane CIM for ATM Site Infrastructure Management

GFS Crane CIM for ATM Site Infrastructure Management belongs to the family of GFS Crane portfolio of Industrial IoT (Industrial Internet) applications developed by GreenField Software. There are three modules built over a Database layer:



1. Ability to manage ATM site infrastructure remotely from a centralized location
2. No local agent required for remote monitoring of SNMP enabled assets
3. Leverages high quality data for preventive maintenance: reduces cost of maintenance
4. Low deployment cost
5. Provides predictive analytics

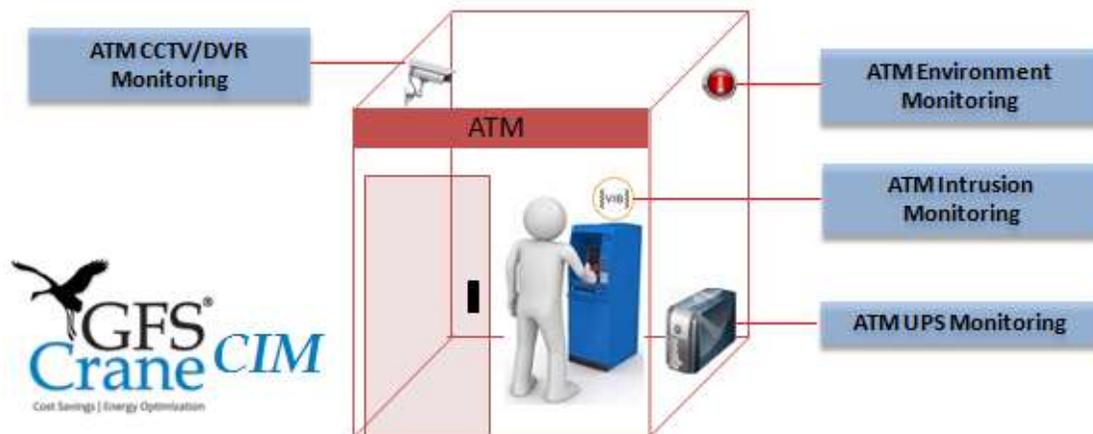
- **Remote Monitoring:** GFS Crane CIM provides *vendor-neutral, centralized remote monitoring* and alerts of all critical devices (including UPS and batteries) across all ATM Sites in a region *to prevent failures*.

Remote monitoring of cameras obviates need for physical manning of the site, which *reduces operating costs*. If fitted with intelligent thermometer, the software can remotely monitor site temperature.

- **Remote Control:** GFS Crane CIM can switch-off ACs or lighting when not required. For areas with stable power supply, GFS Crane CIM can allow toggling between mains and UPS to *reduce power costs* and ensure UPS is in working condition when it's actually required.
- **Analytics & Dashboards:** GFS Crane CIM provides Advanced Analytics for Operations & Management:
 - ✓ Predictive Analytics on Failures: Based on monitored data and past failures, GFS Crane CIM can predict potential failures in a critical device even before any alert is received due to a threshold breach.

- ✓ Vendor Evaluation: Based on analysis of device performance and MTTR from different vendors, Management can take vendor-related decisions.
- ✓ Site Selection: Based on power availability/quality data, past security incidents and footfalls, Management can decide whether to install more ATMs in the same vicinity.
- ✓ Personalized Dashboards: Widget-based personalized Dashboards can be created to get daily, weekly or monthly average of defined KPIs against benchmarks.

GFS Crane CIM Functional Specifications



Benefits

1. Real time centralized monitoring of:
 - UPS and battery with alerts ensures high uptime and avoids situations where ATM is down because of power failure and UPS not working
 - CCTV/DVR on
 - health, on/off, whether positioned correctly and taking pictures ensures lower cost and higher security of site compared to physical manpower.
2. Analytics from power-related data and security images helps in
 - site selection
 - vendor analysis
 - preventing failures through predictive analytics and
 - preventing untoward incidents.
3. Image processing from built-in ATM camera can avoid card fraud
4. OPEX model tied to ATM revenues

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