ATHENTA

Continuous Innovation...

PRODUCT PORTFOLIO

Leaders of Integrated Infrastructure Management

Athenta prides itself on being a thought leader and innovator in the 'Integrated Infrastructure Management' domain. We are laser focussed on creating products that are capable to transform the way companies grow their revenues and optimize their operations.

Companies worldwide can now operate their entire infrastructure eco-system using Athenta's Integrated Infrastructure Management Solution.

Unsurpassed range of infrastructure management products

Athenta has developed and productized innovations across every class of Infrastructure Management – IT & Networks, Energy and SCADA – based on our groundbreaking AES platform that provides a unified environment to manage all classes of infrastructure holistically. Athenta products are unmatched in their depth and breadth of capabilities and proven to work in the most complex and challenging environments. The Athenta product suite is designed to be 'open' - it can be integrated with a wide array of asset classes and vendor types.

Athenta products are rendered as a series of 'Appliances'; each carefully designed to meet the prerequisites of comprehensive functionality required in our chosen verticals. Our comprehensively designed product portfolio ensures that our customers always have a comprehensive 'Business Process View' of key aspects of their businesses. The 'plug and play' nature of Athenta products make them easy to procure, implement and integrate while ensuring the total cost of ownership remains low.

Athenta Products

Awide range of appliance based Products,driving business efficiencyand growth.

BiTrak	DCeye	Transdaq	Vigilante	AOMS	FASCIA
Integrated Building Management System	Datacenter Infrastructure Management System	Integrated Infrastructure Management System for Metro Rail	Integrated Infrastructure Management System for City Surveillance	Operations and Maintenance System	Business Intelligence (BI) Tool

Field Devices

Upto	Managed and Monitored	Managing AMR of	Managing
30%	450+	120	Govt. of India's
CAPEX Savings for a leading metro in India	IT, Servers & Networking Devices for a leading Middle East Airline	Energy Meters; 3 different variants for a leading Glass Manufacturer	Data Centre from a single appliance based tool

BiTrak - Integrated Building Management System

ATHENTA BiTrak GIVE SIMPLE BUT INTELLIGENT FEATURES, GREAT USAGE @ OPTIMAL COST

Features

Ensure

- Service Continuity

Reduce

- Demands & Trend
- Capacity

Forecast

- OPEX
- PUE & Energy Cost
- Resolutions Time
- Escalations
- Carbon Footprint-Go Green

Report & Visualize

- GUI based
- Performance Reports
- SLA Reports
- Trends Analysis Customizable

Other features

- High Availability
- 3rd Party Integration

Building Management Systems are used for Monitoring / Controlling and Optimizing Building Infrastructure. BMS have been in existence for decades now; they, however, continue to be fraught with several challenges:

Complex to implement & integrate – 46% of BMS do not meet stated objectives & timelines, especially in a multi-vendor environment.

- Maintenance requires specialized skills – Over 52% of BMS become partly dysfunctional from 2nd year onwards
- Lack of support for centralized management of multi-building / distributed environment
- Lack of Flexibility and are difficult to upgrade and extend
- Energy and Fuel Management savings are hard to realize– 80% of BMS do not deliver on this front
- Interdependencies, integration and interoperability between various Building Infrastructure Components are limited and tough to manage
- Integrated Physical Security is lacking
- Escalation Management is unavailable
- Incident & Change Management and Vendor Management are not enabled
- Lack of integrated building networks and IT equipment
- The Athenta BMS proposition addresses all the above challenges, holistically, in a vendor agnostic manner – in both 'Brownfield and Greenfield Environments'. Athenta offers the flexibility to integrate 'Legacy Infrastructure' with 'New Infrastructure', giving enterprises the freedom to choose 'Best of Breed ' infrastructure without worrying about or budgeting for common integration pitfalls.

BMS Proposition

The Athenta BMS proposition consists of a pre-integrated Appliance stack that manages:

- Energy: EB, UPS & Batteries, DG Sets with Fuel Management, HT & LT Panels, Energy Meter Management
- Safety & Surveillance: VESDA, Fire Alarm System, RRD, WLD Access Controls, Cameras, Barriers
- Plumbing: Water Pumps, Drainage Pumps, Tanks & Flow Meters
- Cooling/Heating: HVAC, Heating Systems, AHU, Temperature, Humidity
- Building Infrastructure: Elevators, Escalators, IT: Network Equipment, Network, Servers, Applications, DVRs, Video Conferencing Equipments, Voice PABX and etc...

DCeye – Data Center Infrastructure Management

Features

Ensure

- Service Continuity

Manage

- Application
- Database
- IT Hardware
- Passive Infrastructure
- DG, UPS, HVAC, CCTV etc.
- SLAs

Forecast

- Demands & Trend
- Capacity

Reduce

- OPEX
- PUE & Energy Cost
- Resolutions Time & Escalations

Report & Visualize

- GUI based
- Performance Reports
- SLA Reports
- Trends Analysis
- Customizable

Other features

- High Availability
- 3rd Party Integration

A Datacenter today is the nerve center of any organization, where in resides all critical assets that drive 'Business Operations & Profitability'. Service interruptions in a data center can cause significant 'Revenue Losses' and 'Increase Operations Cost'. It is thereby imperative that a Datacenter be measured only by its end-to-end service availability, for this we need to proactively maximize asset availability and performance, at all times. This in-turn requires holistic management of the datacenter, breaking silos between IT and Facilities infrastructure and managing interdependencies between them.

In today's world, all asset classes (as below) are managed individually through their individual consoles – data is marooned in islands that limit its usability and value potential. Athenta DCeye product suite provides integrated infrastructure management across all assets in the datacenters.

Athenta products are pre-integrated Appliance Stack that manages:

IT Equipments:	Applications, Servers, Database, Storage, Networks, Switch, Router, Firewall & Virtual Environments
Building/Facility Equipments:	HVAC, PAC, FDS, RRD, VESDA & WLD.
Physical Security infrastructure:	Access Control & CCTV.
Energy Equipments:	Energy Meter, LT Panel, PDU, DG & UPS.

Transdaq- Integrated Infrastructure Management System for Metro Rail

Governments and Private Enterprises across the world are investing in Train Metros as a safe, reliable, carbon efficient, and convenient mode of transport. There is no denying however that running a metro rail system - that has millions of commuters, daily – is both a complex and challenging task.

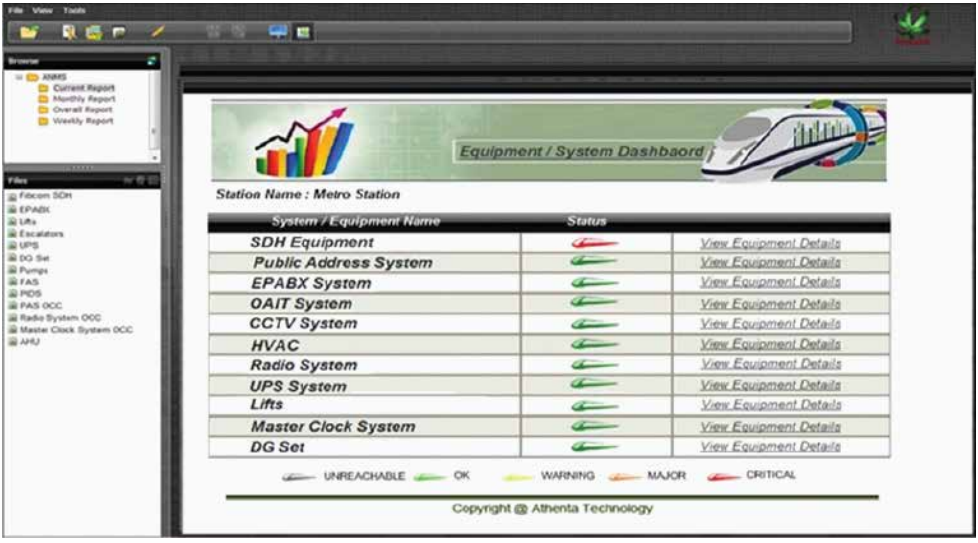
This complexity is greatly increased when critical systems, such as, platform operations, security and safety and IT operate in silos, cannot integrate – and do not work as one. This creates islands of data for each subsystem, preventing the creation of a truly centralized monitoring and control system that manages interdependencies among all systems in an end-to-end manner. The missing link is that of a 'centralized monitoring and control system' that has the ability to manage interdependencies among all critical systems, seamlessly.

Athenta products provide a 'Fully Integrated Management Environment' that manages key interdependencies' between all station infrastructures – within and across multiple stations – through a single environment, using the highest standards of security. This ensures that the administrators can:

- Proactively monitor, manage & optimize end-to-end station operations
- Raise Metro commuter safety standards
- Strengthen Metro security measures and systems

Athenta's IIMS manages the following systems in a Metro rail setup - based on open standards protocols like Modbus, IP, BACnet, Lonworks, Canbus, OID, XML/SOAP, and SNMP – in a highly secure manner.

Dashboard View a Metro Setup



- PIDS – Passenger Information Display System
- PAS – Public Address System
- FAS – Fire Alarm System
- Escalator / Lift System
- SDH – Communication interlinking between stations
- EPABX – Phone exchange system
- Master Clock – Synchronized clock system
- CCTV – Closed Circuit TV System
- AFC – Automated Fair Collection Gates
- UPS / Emergency Battery
- Radio Systems
- HVAC Systems
- OAIT - Office automation IT systems
- LT Panels, DG systems and UPS
- Motors and Pumps
- PSIM - Physical Security Infrastructure Management

Vigilante- Integrated Infrastructure Management System for City Surveillance

Problem at large: In India, "City Surveillance" project means buying cameras in 100's and 1000's and fixing them across the city and expecting them to catch culprits.

It's essentially the responsibility of the customers to understand how "City surveillance" projects, would help their city.

One needs to think of the following

1. Which kind of camera would be suited in which corner of the city and what would be technology be used
   a. MJPEG or
   b. H.264.
2. How would we supply the power to the camera and its associated accessories, (whatever required) on the poles
3. How do we integrate the cameras to the traffic lights, going forward which would be a must.
4. Managing incidences like accidents, lane violations or traffic light jumps, etc. with an OMS tool. (This would be the most crucial part of the surveillance solution)
5. The backhaul technology (could be MPLS) and management of the same. Dynamic nature of bandwidth would need continuous attention in these cases.
6. The security cover to all the road side equipments, from the perspective of their configuration management
7. Management of the data (feed) when it reaches the central location.
8. IT management to all the devices, applications, databases, etc. in the datacenter
9. Physical and IT security to the locations, where the data is kept and analyzed
10. Amount of data thrown by the camera towards the available network
11. Managing the network bandwidth 24 X 7 for the feed/data to move to the centralized zone for Analytics and backup. We can manage a MPLS network (which is most likely to be used in such projects) end to end.
12. We keep a close eye on the power being made available to the cameras and accessories
13. We manage the traffic lights and cameras in tandem
14. We help tracking a incidence to its logical conclusion with our OMS tool
15. We have tried and tested products to manage all aspects of a datacenter
    a. IT : Applications, database, servers, networks and security tools
    b. Non IT: Power, HVAC , water leakage, rack management and physical security
    c. IT security: All kinds of cyber attacks

Anticipating Situations with surety

These solutions have to be "must work" robust solutions, since we are dealing with human lives. There are multiple equipments that have to work in tandem to bring along a stable solution. We make sure that happens !!

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