



Ramco Enterprise Asset Management for Utilities



Utilities - at the cross-roads of opportunity

Utilities market today is a hotbed of unprecedented opportunities and challenges. Deregulation, changing retail distribution channels, customer choice and evolving regulatory standards are at the root of these changes. To turn these opportunities to success, a multi-pronged strategy across the value chain is needed; improving cost control and operational efficiency, providing value-added services to customers, drastically reducing the losses are some of them.

A core IT solution can help utilities in executing these strategies and make the organization agile in responding to customer needs and business demands. Essentially such a software solution must leverage the benefits of an enterprise-wide integration. The architecture of the core IT solution for utilities must also be designed for high levels of availability, scalability and performance. Besides, the solution must have the capability to interact with various special purpose applications using web services, irrespective of the technology platforms the individual applications are built on.

Ramco Enterprise Asset Management (Ramco EAM) has been architected and developed to meet the challenges of an evolving business and IT landscape existing in utilities and other asset intensive industry verticals.

Ramco Enterprise Asset Management A powerful solution for asset intensive enterprises

Rich functionality and flexibility make Ramco Enterprise Asset Management (Ramco EAM) one of the most powerful solutions in the market today. Ramco EAM solution has been the result of hundreds of person-years of experience in developing and implementing EAM solutions for various asset intensive industry segments - utilities, power generation, transmission and distribution, aviation and transportation, cement and process industries. The product is suited for both single and multi-location, multi-company global enterprises. It can manage mission critical and capital intensive network of assets distributed over multiple regions.



Technology and architecture

Ramco VirtualWorks™

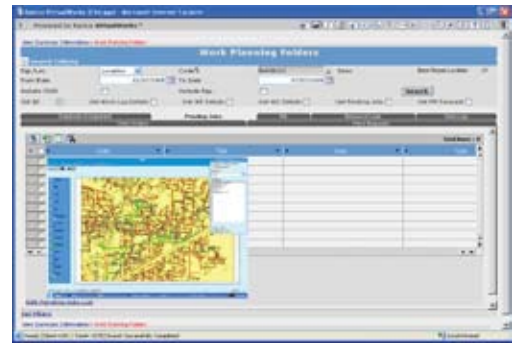
Enables flexible business processes and focused analytics

Ramco has deployed powerful solutions and services to asset intensive enterprises for over a decade. At the heart of Ramco EAM is Ramco VirtualWorks™ - a collaborative solution innovation platform that delivers flexible business processes and focused analytics. Its unique collaborative co-creation process results in enterprise solutions that fit like a glove, and integrate seamlessly with any other technology systems, platforms and applications. Listed below are some benefits of this platform and architecture:

- Completely web architected application that enables easy user access over internet / intranet
- Web service based application mode that helps interface with several other applications using web service standards and SOA technologies
- Model based architecture that helps easy migration of the application aligned to the future changes in operating systems and database platforms
- Inbuilt data drill down reporting tools besides the ability to work with third party report development tools
- Thin client architecture – hassle free access over internet or intranet using only a browser. Compatible with LDAP / directory services, single sign on and easy access from corporate portals.
- Clear segregation of presentation layer, transportation layer, application layer and database layer helps adoption of state of the art technological advancements in each of the technologies quite early on – For example, a new technology in user interface can be easily implemented across Ramco EAM without affecting the business logic or database layer of the application
- A highly scalable architecture that prevents the performance degradation as the user base grows
- Supports different technology platforms (Microsoft / Non Microsoft)

EAI Tools					
Productivity Tools					
MIS and Corporate Performance Management (Analytics, Dashboards and Reports)					
Mobile Computing	Service Management	Real Time Integration	GIS Interface		
Regulatory Compliance		Budget			Self Service
Supplier Portal	Order Management	Calibration		Receivables	HR Intelligence
e Procurement	Disposal	Permits	Correction & Inspection	Management Accounting	Training & Development
Customer Management	Contracts	Outage Management	Tool Crib	Fixed Assets	Time & Attendance
Knowledge Management	Procurement	Reliability	Workshop	Payables	Recruitment
Remote Diagnostics	Inventory	Predictive Maintenance	Engineering Changes	Financial Operations	Compensation & Benefits
Supplier Management	Warehouse Management	Asset Induction & Work Management		General Accounting	Employee Information
Collaboration	MRO Supply Chain	Asset Management		Financials	Human Resources
Ramco VirtualWorks™					

Ramco Enterprise Asset Management



GIS Interface



Performance Management Dash Board

Solution overview

- Globally proven EAM solution for utilities, transportation and asset intensive industries
- Enables highly integrated core business processes in asset maintenance, works management, materials management, finance and corporate performance management
- Comprehensive asset registry that has hierarchical structures and repeatable asset structure templates for quick and accurate modeling of interconnected and networked assets
- GIS interface capability that can help extract accurate and relevant sections of GIS views dynamically from the EAM systems
- Integrated work management module that helps trace a service request through work orders, employee assignments, crew scheduling, work reporting, cost tracking and maintenance of repair history
- Preventive maintenance management modules that can help schedule, forecast and execute routine and planned repair and replacement works
- Predictive maintenance and condition monitoring for implementing reliability centric maintenance
- Real time interface that can help gather data from SCADA / DCS / Automated data acquisition systems, and trigger preventive or corrective actions based on pre-set rules
- Integrated clearance permits module to enforce the rules and policies for isolation and safety during repair jobs on complex asset structures
- Features to manage major shutdowns as a separate project, and track the turn around and costs against such a project
- Inventory management module designed for handling the processes associated with parts and rotatable spares
- Integrated procurement, inventory, stock administration and work management processes
- Interface with e-procurement and supplier portals
- Human resources management for management of crew scheduling, training and time tracking
- Integrated financial system that can serve multi-company multi-location operations
- Core fixed asset management module that enables acquisition, capitalization, rule based depreciation, retirement and transfer of assets
- Integrated MIS and data drill down reporting tools
- Analytics and corporate performance management solution that provides intuitive dash boards, helps KPI and trend monitoring and generates analytical reports beyond regular MIS
- Workflow enabled – easily configurable , rules based user access, alerts, authorization and process flow

Explore Ramco Services

Ramco, backed by its functional and technical experts, methodologies, tools and technology, delivers world-class ERP products that support your business goals. Besides this, Ramco is one among the few global players to directly offer high quality services to its customers including:

- Project Management
- Systems Integration
- Application customization
- Data migration guidance
- Governance Risk and Compliance management solutions development
- Training services
- Self service / Portal development
- Application maintenance services
- Onsite support and development services

Select list of customers who have used Ramco's EAM

Utilities

- Torrent Power
- BSES Limited
- Hoosier Energy
- Jindal Tractebel
- Indal Hirakud
- Reliance Power Company
- PPN power Limited

Transportation

- Petroleum Helicopters Inc, USA
- Pinnacle Airlines, USA
- Alsalam Aircraft Company, Saudi Arabia

Refineries

- Chennai Petroleum Corporation, India

Metals and Mining

- Northern Coal Field, India

Cement

- Madras Cements , India
- Manikgarh Cements, India

Process Manufacturing

- Becker Underwood, USA
- Silver Spring gardens, USA
- Madura Coats, India

Discrete Manufacturing

- BEMIS, USA
- CUMI , India

Others

- Essex Crane Rentals, USA

“ Ability of Ramco personnel to understand user requirements and ability to carry out a smooth implementation is worth mentioning. With best in class people and superior technology, Ramco systems is an organization with a vision into the future. Dhanu thermal power station is extremely pleased with the ERP package and its association with Ramco systems ”

P.K Majumdar, Dy. General Manager (O&M), Dhanu Thermal Power station, BSES Limited

“ The system takes care of a large base of assets from a widely distributed business operations of Torrent Power. The biggest advantage has been the truly web-based architecture of the system ”

**Mr. H H Mehta,
Asst. General Manager (IT),
Torrent Power**

“ Ramco Systems' personnel are some of the most technically competent and capable people I have ever had the pleasure to work with. Their work ethic and professionalism are representative of Ramco's overall dedication to success. I am pleased with the decision of choosing Ramco as our solution provider and am looking forward to our continued success as our partnership moves into the future. ”

**Paul Glenn, Manager, IS Department,
Hoosier Energy, USA**

Ramco is a global provider of business consulting, enterprise solutions and outsourcing services that enhance business value through better business processes and agile global-class applications.

Ramco Systems has offices in nine countries and over 450 customers in 1,000 locations worldwide. The company provides solutions to multiple verticals including banking, insurance, manufacturing, supply chain, aviation, transportation and logistics, healthcare, governance, retail and more. Ramco Systems has been certified for ISO 9001:2000 quality standards and assessed for SEI CMMi - SW Level 5. The company is part of the USD 800 million Ramco Group and is publicly held.



Co-create. Innovate. Win.