Strategic Enterprise Asset Management (EAM) for Manufacturers and Operators of Critical Equipment

Plugging the Engineering Gap in Enterprise Management

An Enterprise Asset Management (EAM) solution forms an integral part of the management loop of any business in which equipment (physical assets) plays a critical role. Complex mobile equipment management still defies the capabilities of traditional Enterprise Management IT systems.

WHEN IS EQUIPMENT CRITICAL?
- Safety Critical
- Cost Critical
- Role/Mission Critical
- Technical Complexity
- Contractually and Legally Critical

Fleet operators in the Aerospace and Defence industry have proven that traditional plant maintenance solutions fall far short of addressing complex equipment challenges. The solution lies in a high-specification EAM system, centered around an advanced configuration management module providing a foundation for accurate Engineering, Financial and Resource Management.

Purple EAM is a new-generation EAM software solution. Born from the experience acquired in Aerospace, Defence and Mining Operations, it offers a wide range of functionality suitable for managing assets ranging from complex mission critical equipment all the way to simple plant and equipment. Purple EAM is a total solution comprising a computer software system, supporting documentation and a best-practice Business Process Framework supporting fast adaptation, integration and implementation. Support for integration with other enterprise application components is integral to Purple EAM.

Purple Asset BI (Asset Centric Business Intelligence)

Industry Workflows and Rules

Purple Fleet	Purple Mine	Purple Property	Purple PM (Plant/Manufacturing)	Aviation (Aviation MRO)

Vertical Industries

Configuration	Permit	Warranty	Operation	External Interfaces
• Object Structure • Event Template • Organisation Policy • Engineering Change	• Permit Definition • Permit Register • Permit Notification	• Warranty Definition • Warranty Register • Warranty Notification	• Ops Work Packs • Ops Work Orders • Time / Resource Feedback & Billing	• Mobile Device • Scada Device • BPM

Specifics	Incident & Failure	Execution	Contract	Other
• Equipment Register • Facility Register • Personnel/Contractor /Driver Register	• Incident Register • Incident Investigation • Incident Resolution • Defect Analysis	• Work Packs • Work Orders • Time/Resource Feedback & Billing	• Master Contract • Specific Contracts (Lease & Rent) • Contract Billing	• Risk (ERM) • OHSE

Enterprise Asset Management

Finance	Trade	Inventory/Stock	Projects	Manufacturing	Human Resource

ERP

Microsoft Architecture

Purple EAM offers a wide range of functionality tightly integrated into the Microsoft Dynamics AX ERP. This delivers best-of-breed thinking integrated with a state of the art ERP. Microsoft Dynamics AX is rated as one of the top global ERPs and offers multi language and multi currency features all integrated with other Microsoft products such as Outlook, Office, SharePoint, SSRS and SQL Server.

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Benefits of EAM include:

- 360˚ asset visibility and control
- Reduce maintenance costs
- Reduce production costs
- Reduce labor costs
- Increase maintenance productivity
- Increase asset reliability and utilisation
- Improve maintenance practices
- Reduce stock levels
- Enable compliance with applicable regulations
- Increase asset profitability
- Minimize downtime

Strategic Enterprise Asset Management normally spans a number of organisations and potential support contract boundaries. Purple EAM offers selective distribution of, and access to data of prime equipment or rotable component fleets in order to enable optimal support of assets over multiple levels of repair, whilst protecting confidential information.

Primary rotable component types, such as complex engines, are often managed as independent fleets, leading to requirements for management of primary and rotable fleets in a matrix fashion. The Purple EAM design offers independent or combined controls and views in this respect.

Processes Supported Include:

OEM:
- As-Designed and Build Configuration Management
- Modification and Engineering Instruction Management
- OEM Level Product Performance Management
- OEM Level Maintenance and Support Planning
- OEM Level Supply Support Management
- OEM Product and Service Warranties

Fleet Manager:
- Fleet As-Maintained and Modified Configuration management
- Fleet Allocation and Utilisation Planning
- Fleet Support Forecasting and Budgeting
- Fleet Maintenance Infrastructure Management
- Deeper Level Fleet Maintenance Management and Scheduling
- Fleet Operations Support
- Fleet Performance Management and Optimisation
- Warranty Management

Operator:
- Specific Functionality for Land, Air, Marine or Fixed equipment operations scheduling
- Management of equipment operational preparation tasks
- Management of first line maintenance
- Equipment Status/Condition and Performance capturing

Purple EAM has been developed within Microsoft's Dynamic AX architecture and seamlessly integrates with Dynamics AX. The latter architecture integrates with the Microsoft stack which include products such as SQL Server, SharePoint, Office, Active Directory etc. All business rules are developed within the Dynamic AX business rule meta model.

An **integration framework** exists to deploy Purple EAM as a best-of-breed EAM next to any other ERP solutions.

*If your business depends on your assets being operational then **being mobile is crucial**. All the core executable functionality is rendered as HTML5 via a platform independent mobile application which enable online and offline operation.*

SUPPLEMENTARY SERVICES:

Purple Window offers a range of services:
- Software adaptation, integration and maintenance services.
- System Engineering services involving higher level total system design, integration and qualification.
- Implementation services including Business Process revision, user training, data migration and operational support.
- Business Process optimization and supporting Business Intelligence Functionality
- Microsoft Dynamics AX implementation and development skills
- Data Migration services
- Quick mobile feature extension via the OutSystems rapid application development platform.

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