pennsylvania
OFFICE OF ADMINISTRATION
INFORMATION TECHNOLOGY

Information Technology Policy

Product Life Cycle Management Applications Policy

ITP Number ITP-APP026	***Effective Date*** March 23, 2009
Category Recommended Policy	***Supersedes***
Contact RA-itcentral@pa.gov	***Scheduled Review*** April 2015

This Information Technology Policy (ITP) establishes enterprise-wide standards and policies for product life cycle management applications as part of the Commonwealth's Enterprise Resource Planning (ERP) system.

1. Purpose

The purpose of this Information Technology Policy (ITP) is to establish enterprise-wide standards and policies for Product Life Cycle Management (PLM). Establishing standards will provide guidance to agencies as they plan for new application development projects or make investments in existing applications.

2. Background

PLM combines a repository of information about a product with a communication infrastructure for product stakeholders, including marketing, engineering, manufacturing, and maintenance. All the information about a product from inception, through design, production, support, and disposal is maintained in a secure environment with role-based access.

Automated PLM tools:

- Manage design and process documents
- Construct and control bill of material records (e.g., component parts, subassemblies, ingredients)
- Offer an electronic file repository
- Include built-in and custom part and document metadata (attributes)
- Manage intellectual property

- Identify materials content for environmental compliance
- Permit item-focused task assignments
- Enable workflow and process management for approving changes
- Control multi-user secured access, including "electronic signature."
- Export data for downstream Enterprise Resource Planning (ERP) systems

Goals of a PLM include:

- Maintain a secure foundation for collaboration
- Reduce costs (research and development, costs of changes)
- Speed time to market
- Improve productivity and product status transparency
- Provide tools to track metrics (e.g., progress of projects, costs of changes, product quality, product safety)

3. Scope

This Information Technology Policy (ITP) applies to all departments, boards, commissions and councils under the Governor's jurisdiction. Agencies not under the Governor's jurisdiction are strongly encouraged to follow this ITP.

4. Policy

Agencies requiring new or updating existing PLM applications are to leverage the PLM solution available from Integrated Enterprise Systems (IES) when the IES PLM solution meets the agencies' business requirements. Current standards and product availability are in sections 5 and 6 of this ITP.

Agencies are to analyze their PLM business requirements and assess the business value of integration and exchanging information with the Commonwealth's ERP system. ERP applications include financial, human resources, customer relationship management, supplier relationship management, PLM, supply chain management, and material management enterprise applications.

Agencies are to analyze their PLM data warehousing and business intelligence requirements and assess the business value of utilizing the Commonwealth's ERP data warehouse and business intelligence platform.

5. Standards

CURRENT STANDARDS

(These technologies or products meet the requirements of the current architecture and are recommended for use.)

Technology	Platforms	Technology Classification
SAP Product Life Cycle Management (PLM)	All	Current

Product Life Cycle Data Management • Document Management • Product Structure Management • Change & Configuration Management Asset Life Cycle Management • Technical Assets Management • Preventive & Predictive Maintenance • Maintenance Execution • Mobile Asset Management Product Life Cycle Collaboration & Analytics • Design Collaboration (c-Folders) • Collaborative Project Management (c-Projects) • Quality Collaboration • Analytics • Enterprise Portal Content Quality Management • Audit Management • Quality Engineering • Quality Control • Quality Improvement • Program & Project Management • Program Management • Project Execution • Project Planning		

CONTAIN

(These technologies or products no longer meet the requirements of the current architecture and are not recommended for use. They are to be phased out over time. No date has been set for their discontinuance.)

Technology	Platforms	Technology Classification
--	--	Contain

RETIRE

(These technologies or products are being phased out. Plans are to be developed for their replacement, especially if there is risk involved, such as lack of vendor support. A date for retirement has been set.)

Technology	Platforms	Technology Classification
--	--	Retire mm/dd/yy

EMERGING / RESEARCH

(Emerging technologies or products have the potential to become current standards. At the present time, they are to be used only in pilot or test environments where they can be evaluated. Use of these technologies is restricted to a limited production mode, and requires approval of a waiver request. Research technologies are less widely accepted and time will determine if they will become a standard.)

Technology	Platforms	Technology Classification
--	--	Emerging / Research

6. Product Availability

Product Life Cycle Management Product Availability	
Product / Module	**Status**
SAP Product Life Cycle Management (PLM) **Product Life Cycle Data Management**	
Document Management	Available
Product Structure Management	Available
Change & Configuration Management	Available
Asset Life Cycle Management	
Technical Assets Management	Available
Preventive & Predictive Maintenance	Available
Maintenance Execution	Available
Mobile Asset Management	Available
Product Life Cycle Collaboration & Analytics	
Design Collaboration (c-Folders)	Available
Collaborative Project Management (c-Projects)	Available
Quality Collaboration	Available
Analytics	Available

Enterprise Portal Content	Available
Quality Management	
Audit Management	Available
Quality Engineering	Available
Quality Control	Available
Quality Improvement	Available
Program & Project Management	
Program Management	Available
Project Execution	Available
Project Planning	Available

7. Related ITPs/Other References

8. Authority

- Executive Order 2011-05, Enterprise Information Technology Governance

9. Publication Version Control

It is the user's responsibility to ensure they have the latest version of this publication. Questions regarding this publication are to be directed to RA-itcentral@pa.gov.

This chart contains a history of this publication's revisions:

Version	Date	Purpose of Revision
Original	3/23/2009	Base Document
	10/25/2010	ITB Refresh
	4/2/2014	ITP Reformat; Merged GEN-APP026B, STD-APP026A into ITP