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MANAGING END-OF-LIFE RISK WITH IT ASSET MANAGEMENT

NASHVILLE, TN MAY 9TH - 11TH

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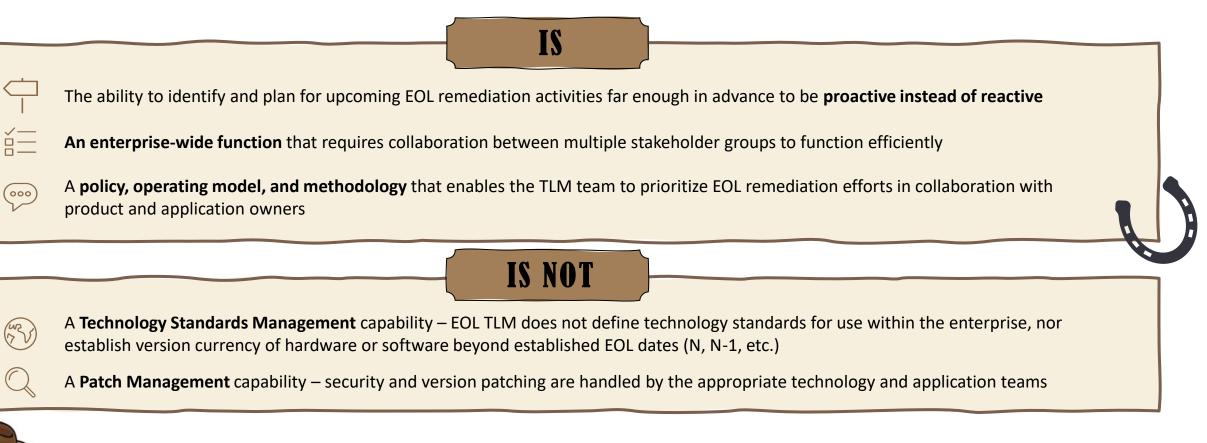


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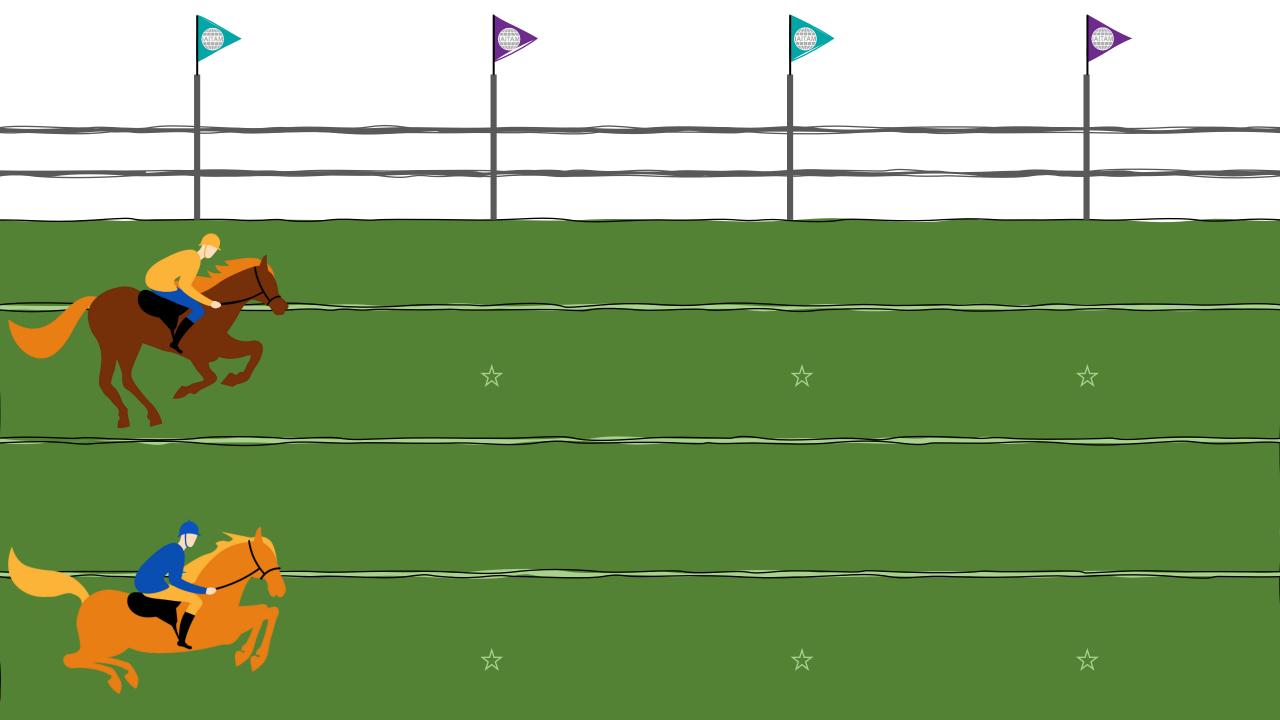
What is Technology Lifecycle Management (TLM)?

Technology Lifecycle Management (TLM) is an enterprise function that encompasses the planning, design, acquisition, implementation, and management of elements comprising of the IT infrastructure. It is important to the reduction of risk caused by End-of-Life (EOL) technology.









Common TLM challenges

LACK OF GOVERNANCE

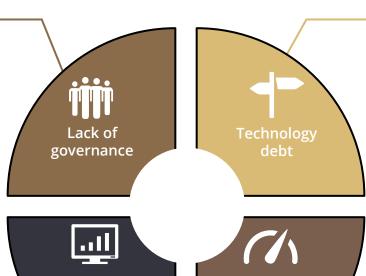
Missing, incomplete, or inconsistent policies, processes, and standards and organizational silos prevent TLM from being effective.

Lack of governance leads to lack of policy and process enforcement. Governance should be extended to the management and remediation of data.

UNABLE TO IDENTIFY RISK

EOL hardware and software is often not considered when managing IT risk.

Inability to maintain an up to date and accurate inventory and combine that with service and application models creates an inability to assess and manage risk.



Unable to identify risk Data quality & connecting the dots

TECHNOLOGY DEBT

Companies defer technology refreshes to minimize impact and accumulate technical debt and increased complexity over time.

Hardware refreshes are driven by modernization projects and can lack budget for both resources and working capital to maintain systems on a planned basis after project reaches specific milestones.

DATA QUALITY & CONNECTING THE DOTS

Many companies are unable to manage EOL even with a TLM capability in place because the asset, CMDB (Configuration Management Database), or EOL data is not accurate or timely.

Even those with good sources of data may fail to connect the dots and aggregate, normalize, and reconcile data in a way that facilitates good TLM outcomes.

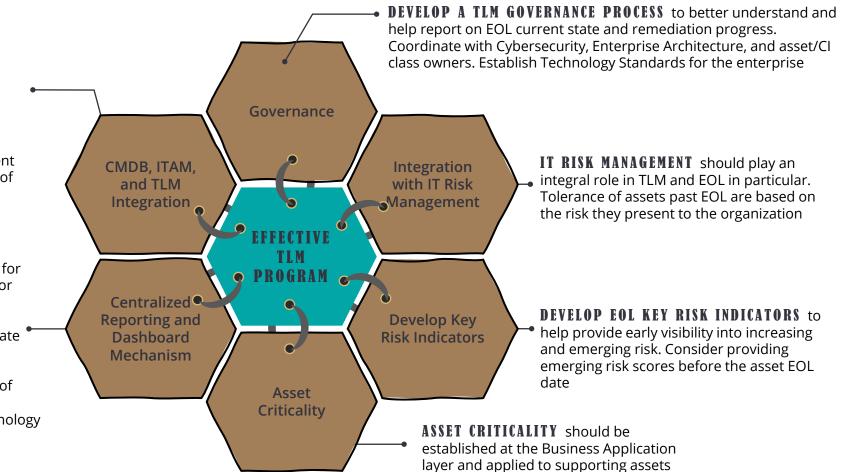
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What does good look like?

A effective TLM program should contain each of the components below





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MANAGEMENT OF IT ASSETS AND CMDB CIS SHOULD BE IN AN INTEGRATED SOLUTION

so that assets are managed over the full asset lifecycle, from planning to disposal, and product lifecycles are established before vendor EOL dates but after assets are fully depreciated. This alignment to TLM allows for accurate scoring and evaluation of existing technology

IMPLEMENT A SINGLE TECHNOLOGY SOLUTION for

proactive notifications and real-time dashboards for business owners:

- EOL reports by Service/Application criticality
- EOL reports for pending assets by class and date
- EOL reports for assets past EOL
- IT Risk reports for EOL assets
- Consolidated for reporting and management of both IT and OT assets as required
- Visualize spend required to support EOL technology

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What does good look like – TLM governance top to bottom

Objective: Create enterprise-wide policies, standards, and processes for IT Asset Management that covers the full asset lifecycle, with monitoring and enforcement mechanisms to maintain them



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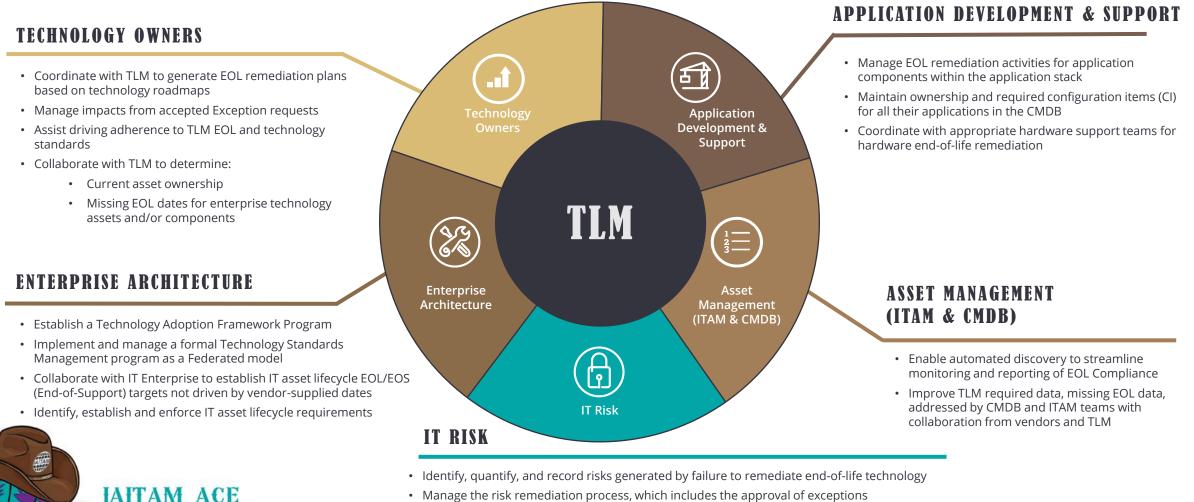
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What does good look like – key stakeholder groups

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Objective: Establish collaboration across the enterprise to establish standards, determine lifecycles, and define exception processes for EOL remediation with input from business and IT.



• Manage the risk remediation process, which includes the approval of exceptions

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What does good look like - integrate TLM with IT Risk Management (ITRM)

Objective: Ability to assess the operational, financial, and information security risks created by end-of-life assets in the environment



END USER COMPUTE (EUC) DEVICES, PRINTERS, PHONES

A low-risk asset is an asset that is identified as having a small role in the organization's business continuity program and/or is ranked as a low-risk asset



INTERNAL FACING, MIDDLEWARE FOR NON-CRITICAL BUSINESS APPLICATIONS

A medium-risk asset is an asset that is identified as having an important role in the organization's business continuity program and/or is ranked as a medium-risk asset

PHI SYSTEMS, SOX, CUSTOMER/ INTERNET FACING

A high-risk asset is an asset that is identified as having a critical role in the organization's business continuity program and/or is ranked as a high-risk asset

FINANCIAL RISK

Post-warranty support purchased through Original Equipment Manufacturer (OEM), or Third-Party Maintenance is expensive and can exceed cost of replacement with non-EOL asset with OEM warranty/support



OPERATIONAL RISK

IT Assets may no longer be able to efficiently support daily operational activities as the organization and supported applications grow and change. Chance of failure increases as assets pass their Mean Time Between Failure (MTBF) ratings, which can cause application and service disruptions. In addition, ability to repair an EOL asset is more difficult, which can extend outages

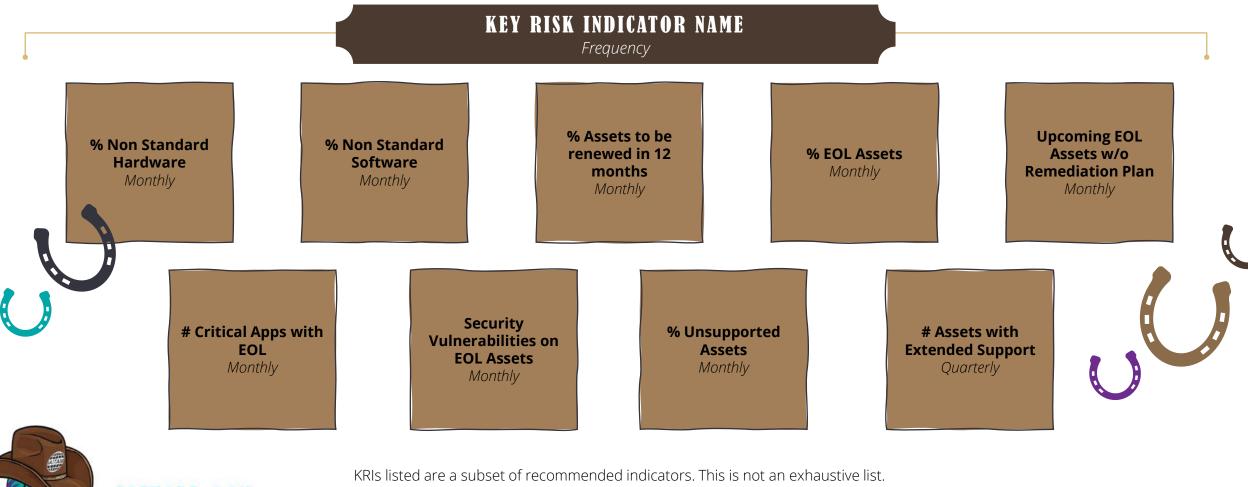
CYBER SECURITY RISK

IT Asset will no longer receive patches, bug fixes and upgrades. An estimated 1 in 3 of breaches today are a result of unpatched vulnerabilities. By allowing assets to reach EOL, where support is no longer available, organizations expose themselves to unknown vulnerabilities and greater risk



What does good look like - key risk indicators

Objective: Establish metrics and key risk indicators (KRI) that enables the organization to assess the effectiveness of the TLM program and its impact on the business





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What does good look like – technology standards

Objective: Implement a technology standards management program that provides key benefits for the Technology Lifecycle Management capability and to the overall enterprise.

TECHNOLOGY STANDARDS MANAGEMENT

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- Map enterprise capability requirements to technology standards in collaboration with business and IT stakeholders
 - Establish strategic direction and technology standards for hardware, software, and additional technology components for deployment within the enterprise
 - Define and manage the process for evaluating new or emerging technologies, along with the exception process for non-standard technology requests and a maintained library of evaluation results
 - Identify, establish, and enforce IT asset lifecycle requirements for many IT related hardware and software products in collaboration with TLM, external vendors and suppliers, and enterprise stakeholders
 - **Develop a product rationalization framework** through coordination with business stakeholders
- Implement a governance framework managed by EA, with representation from Tech Owners, App Owners, IT Procurement, IT Risk, and TLM to manage and enforce the technology acquisition process

BENEFITS FOR TLM

- Reducing the likelihood of disparate technologies through establishment of a technology standards management program and enforcing IT asset lifecycle requirements, will help improve TLM's ability to plan and execute on EOL remediation
- Centralizing the technology standards catalog and exception process for acquiring non-standard technologies will help enable the consistent definition of technology ownership responsibilities as they pertain to the technology lifecycle

BENEFITS FOR THE ENTERPRISE

- Improved management and tracking of IT assets
- Decreased security risk by updating assets in a timely manner
- Reduced operational risk and technology debt by aligning operational and developmental efforts to supported standards or accepted exceptions while prioritizing M&A assets
- Reduced technology sprawl will result in lower support costs for the enterprise
- Standardized, collaborative process to identifying and evaluating emerging technologies
- Improved ability to track technology dependencies in the application stack



Illustrative TLM maturity roadmap – 3 Years and beyond

YEAR ONE

- Define technical debt scope for TLM (EOL) and align with Senior Leadership by:
 - Coordinating with IT Service Management (ITSM) teams to improve data completeness and quality
 - Pursuing opportunities for automation
 - Identifying and updating technology asset data for those missing EOL dates to improve TLM's ability to identify EOL assets
- Implement a formal technology currency standard model, managed by TLM (EOL)
 - Version management (N, N-1)
- Incorporate cloud migration into remediation planning and standards

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YEAR TWO

- Develop an IT Risk-managed EOL remediation exception process for a formal risk assessment
- Enhance EOL remediation performance of TLM metrics and prioritization
- Establish a technology adoption framework program, managed by EA

YEAR THREE

- Review and reassess TLM goals and objectives to determine additional areas for improvement
- Continue identifying strategic opportunities for improving TLM maturity through automation, improved reporting, etc.

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