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Navigating the AI Jungle

The OSPO's New Mandate for AI Governance

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The AI Revolution is Here

Generative AI Adoption at Breakneck Speed

- Organizations rapidly deploying AI/ML models across all business functions
- ChatGPT, GitHub Copilot, and custom AI solutions becoming standard tools
- Traditional software governance frameworks struggling to keep pace
- The result: A significant governance black hole

Traditional OSPO Responsibilities

What OSPOs Have Mastered

- Open source license compliance and risk management
- Managing software dependencies and supply chain security
- Facilitating open source contributions and community engagement
- Vulnerability scanning and remediation processes
- Software Bill of Materials (SBOM) generation and maintenance
- Policy development and developer education

The Fundamental Shift

AI Has Redefined What a Software Asset Is

- Traditional view: Source code, binaries, libraries, dependencies
- New reality: Models, datasets, training pipelines, inference engines
- Software assets now include:
  - Pre-trained models and fine-tuned variants
  - Training and validation datasets
  - Model weights and parameters
  - AI-generated code and content

The AI Governance Gap

Why Traditional Tools Fall Short

- License scanners can't analyze model licensing terms
- Dependency trackers miss model provenance and lineage
- Security tools don't detect model-specific vulnerabilities
- SBOMs don't capture AI components and their relationships
- OSPOs are flying blind in the AI landscape

Challenge #1 — AI Licensing Complexity

Beyond Traditional Software Licenses

- Models often have custom licensing terms (e.g., "Responsible AI" clauses)
- Dataset licensing separate from model licensing
- Commercial use restrictions and attribution requirements
- License compatibility between models, datasets, and traditional software
- Action needed: Expand license compliance frameworks for AI assets

Challenge #2 — AI-Specific Vulnerabilities

New Attack Vectors and Risk Categories

- Model poisoning and adversarial attacks
- Data leakage and privacy violations
- Bias and fairness issues
- Prompt injection and jailbreaking
- Model inversion and extraction attacks
- Traditional vulnerability scanners miss these entirely

Challenge #3 — AI Supply Chain Complexity

Tracking AI Dependencies and Provenance

- Models built on other models (foundation → fine-tuned → specialized)
- Dataset provenance and quality concerns
- Training infrastructure and compute dependencies
- Third-party AI services and APIs
- Challenge: Creating comprehensive AI supply chain visibility

Challenge #4 — Evolving SBOMs for AI

Software Bill of Materials Must Include AI Components

- Traditional SBOMs: packages, versions, licenses, vulnerabilities
- AI-enhanced SBOMs need:
  - Model names, versions, and architectures
  - Training dataset information and sources
  - Model performance metrics and limitations
  - Inference dependencies and hardware requirements
  - AI service provider information

Challenge #5 — AI-Generated Code Governance

Managing Code Created by AI Systems

- Intellectual property and licensing questions
- Code quality and security concerns
- Attribution and liability issues
- Integration with existing code review processes
- Who owns AI-generated code? How do we audit it?

The Path Forward: OSPO Evolution

Expanding OSPO Capabilities for AI Governance

- Develop AI-specific policies and procedures
- Implement AI asset discovery and inventory tools
- Create AI risk assessment frameworks
- Establish AI model lifecycle management processes
- Build cross-functional partnerships (Legal, Security, Data Science)

Practical Next Steps

Building AI Governance Capabilities

- Immediate: Inventory current AI usage across the organization
- Short-term: Develop AI-specific licensing and security policies
- Medium-term: Implement AI-aware SBOM and dependency tracking
- Long-term: Integrate AI governance into existing OSPO workflows
- Ongoing: Stay current with evolving AI regulations and standards

Conclusion

The Future of OSPO in an AI World

- AI governance is not optional — it's essential for organizational risk management
- OSPOs are uniquely positioned to lead AI governance initiatives
- Success requires expanding beyond traditional software management
- The time to act is now — before the governance gap becomes a crisis


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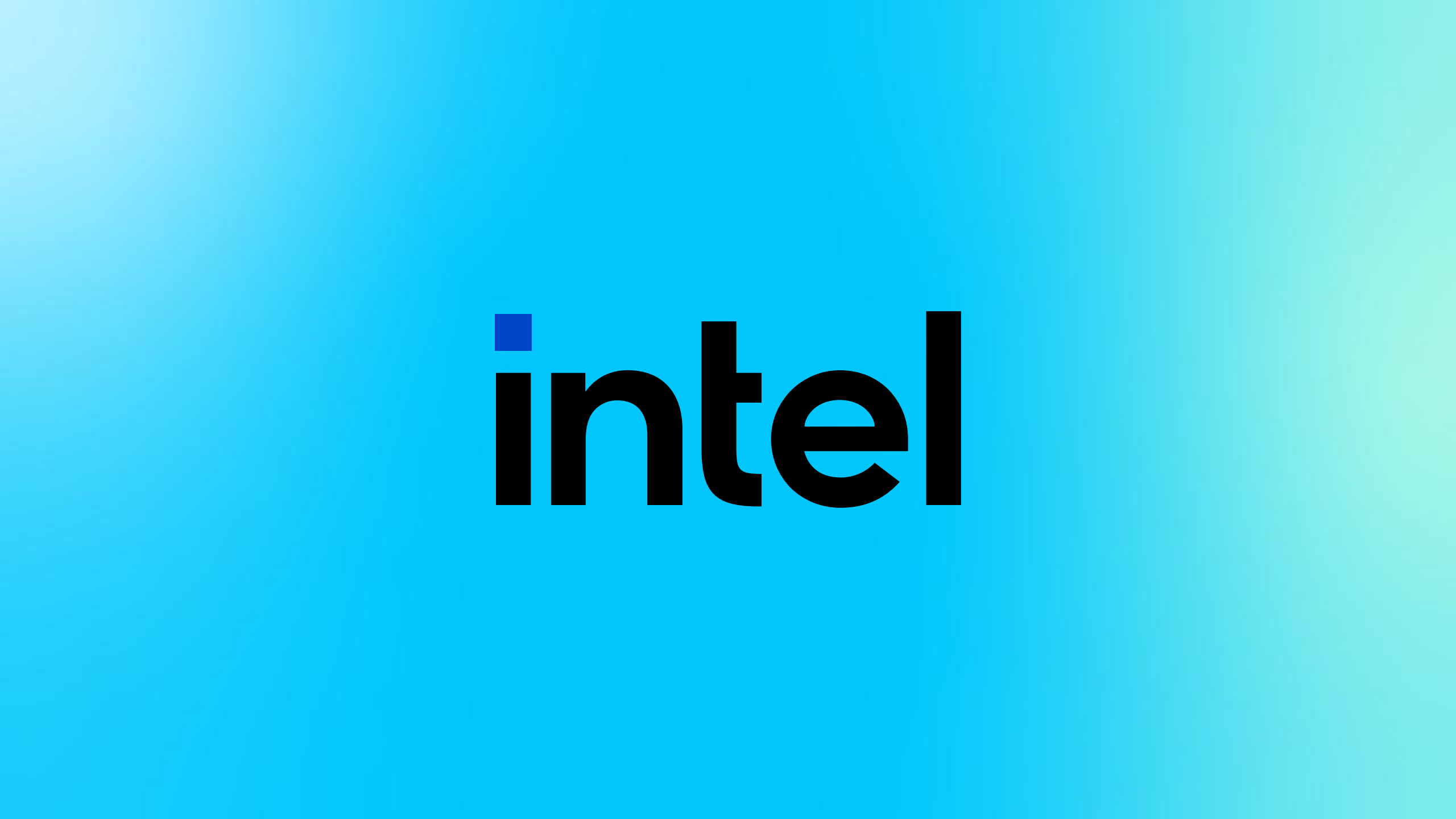
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