

# 10:05–10:30 | Enterprise Leadership Council Lightning Keynotes



**SUNIL KHANDEKAR**

Chief Enterprise Development Officer



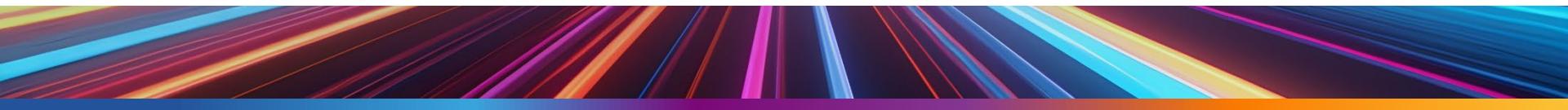
**DAN SNYDER**

Chief Principal Architect



**NABIL BITAR**

Head of Network Architecture,  
Office of the CTO



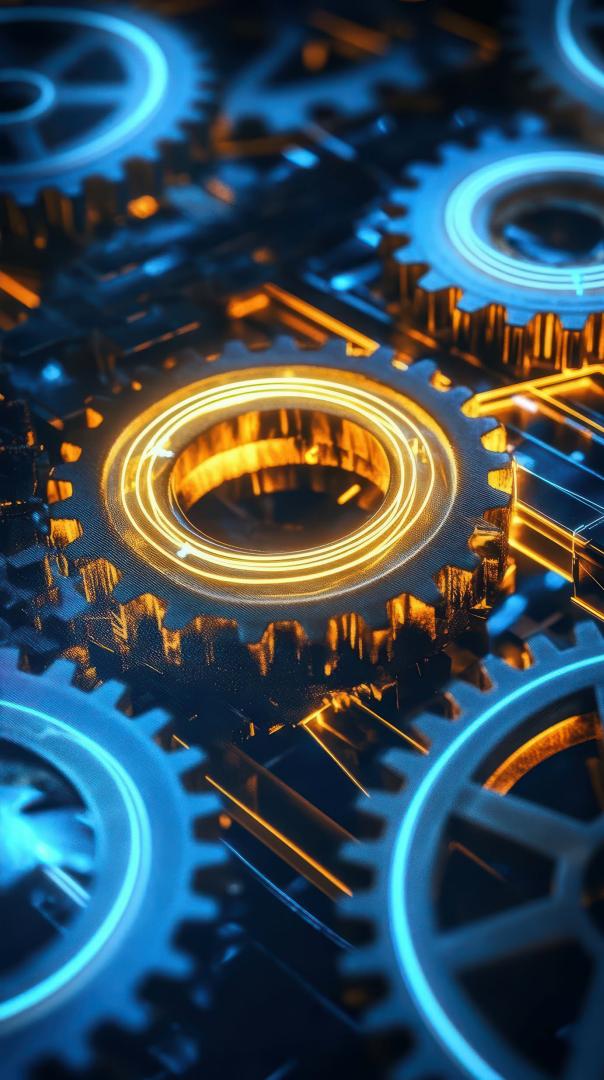
# Enterprise Leadership Council Lightning Keynotes | Introduction



## SUNIL KHANDEKAR

Chief Enterprise Development Officer





# Enterprise Leadership Council(ELC): Driving Enterprise Innovation

## Automation Gap Challenge

ELC addresses automation gaps between enterprise IT and service provider networks causing manual coordination.

## Standardizing APIs

The council standardizes APIs to enable seamless, automated supply chain interactions from edge to cloud.

## Driving Agility and Security

Business and operational APIs support scalability, agility, and security in provisioning and fault management.

## Collaborative Innovation

ELC fosters collaboration among service providers and technology suppliers to align networks with business needs.

# Enterprise Leadership Council (ELC)



**Nabil Bitar**  
Head of Network Architecture,  
Office of the CTO,  
Bloomberg LP



**Roger Berg**  
Vice President, North America  
Research and Development,  
Denso



**Maxime Bruynbroeck**  
Head of Network Operations,  
Decathlon



**Chris Carmody**  
SVP, Information Services  
Division, UPMC



**Daniel Foo**  
Head of Grabber Technology  
Solutions, Grab



**Alejandro Fuster Tozer**  
SpainDC



**Michael Jenkins**  
Strategic Negotiator,  
Google Global Enterprise  
Networks



**Amin Jerraya**  
SVP, Head of IT Digital  
Engagement & Infrastructure,  
Siemens Healthineers



**Mark Looker**  
Managing Director, Head of  
Voice & Data Network Service,  
Morgan Stanley



**Amo Mann**  
Chief Architect,  
Accenture



**Raleigh Mann**  
SVP, Technology,  
Williams-Sonoma, Inc.



**Chema San José**  
Head of Data & AI Architecture,  
Santander Digital Services



**Neal Secher**  
Independent



**Jonathan Sheldrake**  
VP, IT Infrastructure  
and Services, Burberry



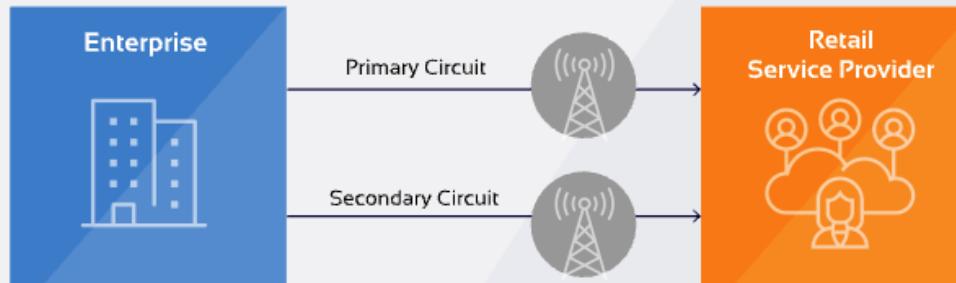
**Drew Yates**  
Head of Network Services,  
TD Bank

## VERTICALS

- Financial Services
- Automotive
- Sports Retailer
- Healthcare
- SuperApp
- Webscale
- Medical Tech
- Investment Banking
- Home goods Retailer
- Fashion Retailer
- Consulting

# CIM API: Accelerating Service Automation

## Circuit Impairment & Maintenance (CIM) Service API



- **Fastest-Approved Standard:** The CIM API is the fastest-approved standard in Mplify's history, highlighting urgent automation needs.
- **Real-Time Notifications:** CIM API delivers timely, automated notifications on circuit impairments and maintenance schedules.
- **Standardized Machine Interface:** Replaces inefficient calls and emails with a uniform, machine-readable interface for service automation.
- **Improved Network Reliability:** Integration of CIM reduces downtime and enhances operational responsiveness and service restoration.

# Cybersecurity Alert(CSA) API: Automated Threat Alert Notification

- ✓ **Industry First:** The CSA API for cybersecurity notifications is an industry first initiative started by the ELC.
- ✓ **Real-Time Notifications:** The CSA API will enable Service Providers and Enterprises to exchange threat-related information in real-time and take appropriate mitigation actions.
- ✓ **Use cases:** Identity Mgmt, NG Firewall, DoS, Data security and more...
- ✓ **Improved Network Security:** The integration of CSA will create a robust network for enterprises' core business.

**MVP Ready!**

Palo Alto Networks & Proadapt will showcase a Demo



# ELC Calls to Action: SASE & LSO Manifestos



## SASE Certification Framework

Urges SASE certification for secure, scalable enterprise connectivity with integrated cybersecurity and network services.

## LSO Manifesto Automation

Promotes the adoption of standardized APIs to replace manual processes with automated, real-time interactions between enterprises and service providers.

## Strategic Connectivity Transformation

Together, the manifestos foster a resilient and agile digital ecosystem with certified interoperability and business alignment.

# AIOps: Empowering Enterprise Network Teams

## Strategic Importance

AIOps is a critical tool empowering enterprise network teams with advanced operational capabilities.

## Standardized Requirements

ELC defines essential requirements to guide technology suppliers in developing effective AIOps tools.

## Seamless Integration

AIOps tools must integrate smoothly with existing network infrastructure for operational efficiency.

## Enhanced Operational Agility

AIOps accelerates AI-driven network management enhancing agility and predictive maintenance.



# Join the Movement



**Call to Action:** The Enterprise Leadership Council urges stakeholders to collaborate for a better digital future.

**Closing Automation Gap:** Efforts focus on closing the automation gap to create agile and scalable ecosystems.

**Foundation for Innovation:** Standardized APIs and AIOps requirements set the foundation for enterprise innovation.

**Community and Future Building:** The ELC fosters a community for continuous improvement and future connectivity building.

# Securing a Massive Health Care Network – Managing Millions of IoT Devices



**DAN SNYDER**

Chief Principal Architect

**UPMC**  
LIFE CHANGING MEDICINE



# UPMC by the Numbers

- Global leader in providing patient care, insurance and research
- 40+ Hospitals and 800+ outpatient sites.
- 110,000+ employees
- 4 Million+ health insurance members
- Top 10 in NIH funding programs with University of Pittsburgh



# UPMC network overview

- 1800+ Routers
- 7000+ Switches
- 26,000+ Wireless access points
- 400+ Firewalls

# UPMC connectivity overview

- 800 Gbps to public cloud
- 400 Gbps to internet
- 1.2 Tbps between primary data centers
- 40+ Compact data centers
- 3 DWDM rings in PA (700km)

# Current standard of connectivity for a large site

- 2 or 4 x 100G to the site
- 2x100G uplinks from IDF to MDF
- Access layer connectivity 1|2.5|5|10G
- Wireless 802.11ac to 802.11be
- Sub-second failover

# What is the challenge?

- Regulatory compliance
- GDPR/HIPAA/NIST
- BCSI (FGA,NFPA 99, etc)

# Shadyside Hospital

- 520 Beds
- Over 1 million sq/ft
- 89k total devices
- 66k devices
- 23k guest devices



# What are the device types?

- Guest internet
- IoT
- Voice
- Building systems
- Clinical network
- General network

# What is available in the market?



- Research
- Standards
- Vendor solutions

# What is the issue?

- OUI says vendor x
- Profiling says vendor x workstation
- Reality PET/CT machine

# How are we addressing the issue?

- All devices that are added to the network need an EA review and approval. Lasts 1 year.
- Devices are registered in BioMed DB or CMDB.
- Arp tables
- NAC (802.1x or MAB)

# What is needed?

- A better way to identify devices
- Regulatory requirements need updated

# Questions?



# Conscious Networks that Prevent Guilt and Heal Fast With AI-Driven Network Operations (AIOps)



**NABIL BITAR**

Head of Network Architecture, Office of the CTO

**Bloomberg LP**

## Outline

- Traditional vs AI driven operations
- AI capabilities for operations
- Key use cases
- AIOps functional building blocks
- Industry needs and Mplify

## **Complex Operational Environments – Posing Operational Challenges**

- Highly distributed applications
- Diverse applications and systems
- Diverse network and network security solutions

## When a problem happens



# Traditional vs AI Driven Operations

Traditional Operations – human intensive	AIOps - AI Driven Operations
Alarm Overload	Alarm reduction – correlation and consolidation
Static thresholds on metrics	Contextual dynamic thresholds
Dashboards (e.g., graphs, logs) searched and examined by humans	Pull in and zoom into relevant data aligned with events in time and space
Information/Data ontology and topology – for human correlation	Ontology and topology used for automated correlation
Reactive	Predictive and reactive
Syntax driven interaction – system specific	Semantic interaction
Reasoning and correlation by humans	Reasoning & correlation done by systems
Remediation – human driven	Automation - human supervised or autonomous, generative or retrieved

**Data quality is fundamental to either, and it is Operations' responsibility**

# AIOps- ML and LLM Capabilities for Operations

Relegating to machines and algorithms what they can do best

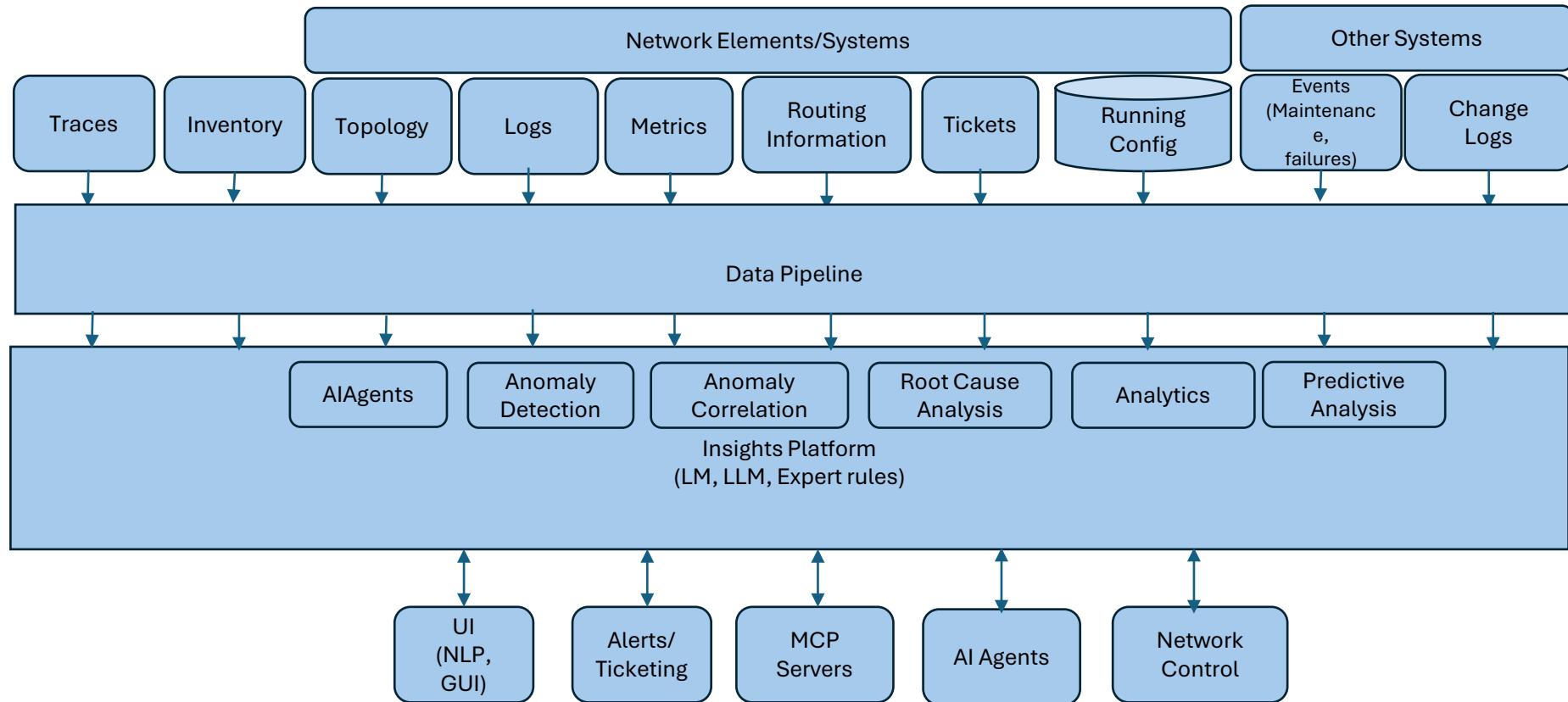
- Telemetry processing at scale
- Seasonal anomaly detection
- Ontology, topology, time and space-based correlation
- Codified human knowledge
- Information generation and retrieval
- Semantically driven human interactions

- **Contributing to Mean Time to Remediation (MTTR) reduction**
- **Augmenting human expertise**
- **Alleviating human intensive and mundane tasks**
- **Autonomously driving, when allowed**

## AIOps – Some Key Use Cases

- Reduction of Mean Time To Insights (MTTI) and Remediation (MTTR) - Anomaly detection, correlation, causality analysis and remediation
- Data and knowledge systemization, retrieval, and analysis (tickets, runbooks, tribal knowledge)
- Improved productivity & onboarding of systems and people – NLP based human-system interaction
- Contextual information retrieval and generation

# AIOps Building Blocks



# Industry State and Challenges

	Network Equipment Providers	AIOps Solution/Platform Providers	Enterprise Challenges
Use cases	Vendor specific	<ul style="list-style-type: none"> <li>- Pre-existing</li> <li>- Custom</li> <li>- Multi-vendor/systems</li> </ul>	<ul style="list-style-type: none"> <li>- Awareness</li> <li>- Definition</li> <li>- Multi-vendor/system</li> </ul>
Meta Data	Proprietary	Onboarding customer data and telemetry enrichment	<ul style="list-style-type: none"> <li>- Data quality and consistency</li> <li>- Onboarding</li> </ul>
Telemetry	Vendor specific	<ul style="list-style-type: none"> <li>- pre-existing</li> <li>- Onboarding customer telemetry</li> </ul>	<ul style="list-style-type: none"> <li>- Coverage</li> <li>- Awareness</li> <li>- Data quality</li> <li>- Onboarding</li> </ul>
Enterprise systems	Selective integration with commercial solutions	<ul style="list-style-type: none"> <li>- Selective integration with commercial solutions</li> <li>- Custom</li> </ul>	<ul style="list-style-type: none"> <li>- Onboarding</li> </ul>
Adoption	Increasing	Somewhat limited in network space	<ul style="list-style-type: none"> <li>- Awareness/Education</li> <li>- Strategy</li> <li>- Execution</li> </ul>

## AIOps - Typical Phases

- Phase 1: Proof of Value (POV) - build the business case
- Phase 2: Use cases in Operations, augmented intelligence to operations
- Phase 3: Supervised remediation automation
- Phase 4: Selective and increasing remediation autonomy

## What Does the Industry Need to Accelerate AIOps Adoption in Enterprises?

Where Mplify could potentially contribute to advancing AIOps

- Definition of use cases and associated values
- Easing enterprise data onboarding and integration in solutions/platforms
  - Identification of metrics, logs and associated use cases
  - Standardized meta data definition
  - Standardized interfaces between data pipeline/data sources and Insights platforms
  - Standardized topology representation
  - Standardized ontology, ticket and runbook structure - knowledge base
- Network-focused (expert) language models
- Motivate NLP use for managing network elements and systems
- Model Context Protocol (MCP) servers and AI agent catalogue

**The Enterprise Leadership Council is working on a document describing the needs and requirements across the ecosystem (network equipment providers, service providers, AIOps solution providers, AIOps platform providers)**



Global NaaS Event