unisys

Client Connect México

12 de noviembre, Ciudad de México



Patrocinio

facephi



Steven Koss

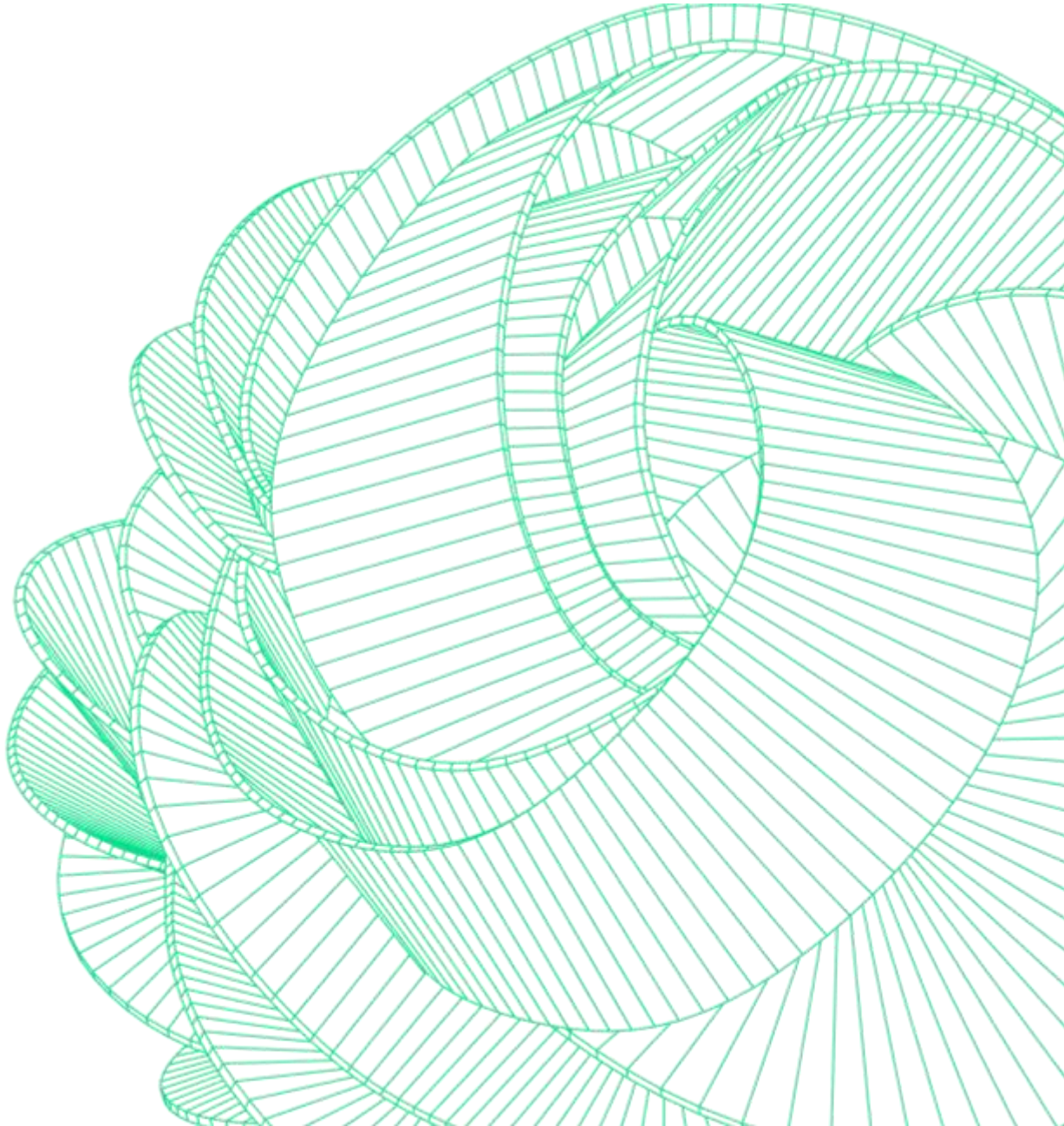
Distinguished Engineer & Head of ClearPath Strategy

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ClearPath® Strategy

ClearPath 2050

Steve Koss
Distinguished Engineer &
Head of ClearPath Strategy





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The Modern ClearPath® Ecosystem

Secure, scalable operating systems with the flexibility to enable enterprise AI workflows

Deployment Options

Today's CPF runs seamlessly in AWS and Azure, a private cloud, or on traditional integrated systems, future-proofing investments for evolving hybrid multi-cloud strategies of clients seeking to manage rising costs of compute driven by AI adoption

Private Cloud
VMware or bare-metal

Pre-integrated Systems
Unisys, on-prem, or co-lo hosted

Public Cloud
MS Azure or AWS

Value-added Solutions

Solutions designed to support contemporary application development as well as data sharing to and from the CPF environment, providing flexibility to power enterprise AI with the high-value client data generated on CPF platforms

ePortal

DataExchange

AB Suite®

CPF Ecosystem

Operating Environments

Providing unmatched security, scalability, and speed that is extremely difficult to replicate, especially given decades of client data and customization embedded in our platforms

CPF Operating Systems

- Secure, high-speed and volume compute environments
- Designed for mission-critical workloads
- Continuously adapting and expanding
- Certified to run wherever the client needs

Application Environment

Evolve and enhance applications with capabilities ranging from sophisticated data analysis to modern development environments to updated user experiences.



Services for Optimal Results

Enterprise experts maximize business outcomes through a comprehensive range of services from technical support to hosting and running client environments so clients know they can rely on CPF for decades to come.

ClearPath® Forward
Professional and Managed Services

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ClearPath® 2050



Commitment

ClearPath® 2050 is our "North Star."

- ClearPath 2050 is our vision and guiding force; our commitment to clients that the ClearPath environment is here for the long term.
- In addition to ClearPath being supported, ClearPath will be enhanced and remain a relevant component serving clients' future IT needs for the foreseeable future and beyond.



Continuity

ClearPath is and will continue to be a premier choice for mission critical applications.

- Applications: Your investment in both existing and new ClearPath Applications is protected. Your applications will continue to run and your data remains secure.
- Environment: ClearPath provides a modern environment, maintaining mainframe quality attributes, with the flexibility of on-premises, virtualized, or cloud deployments.
- People: Unisys has a program in place to ensure skills continuity in development, support, and services organizations. This program can help you do the same.



Capabilities

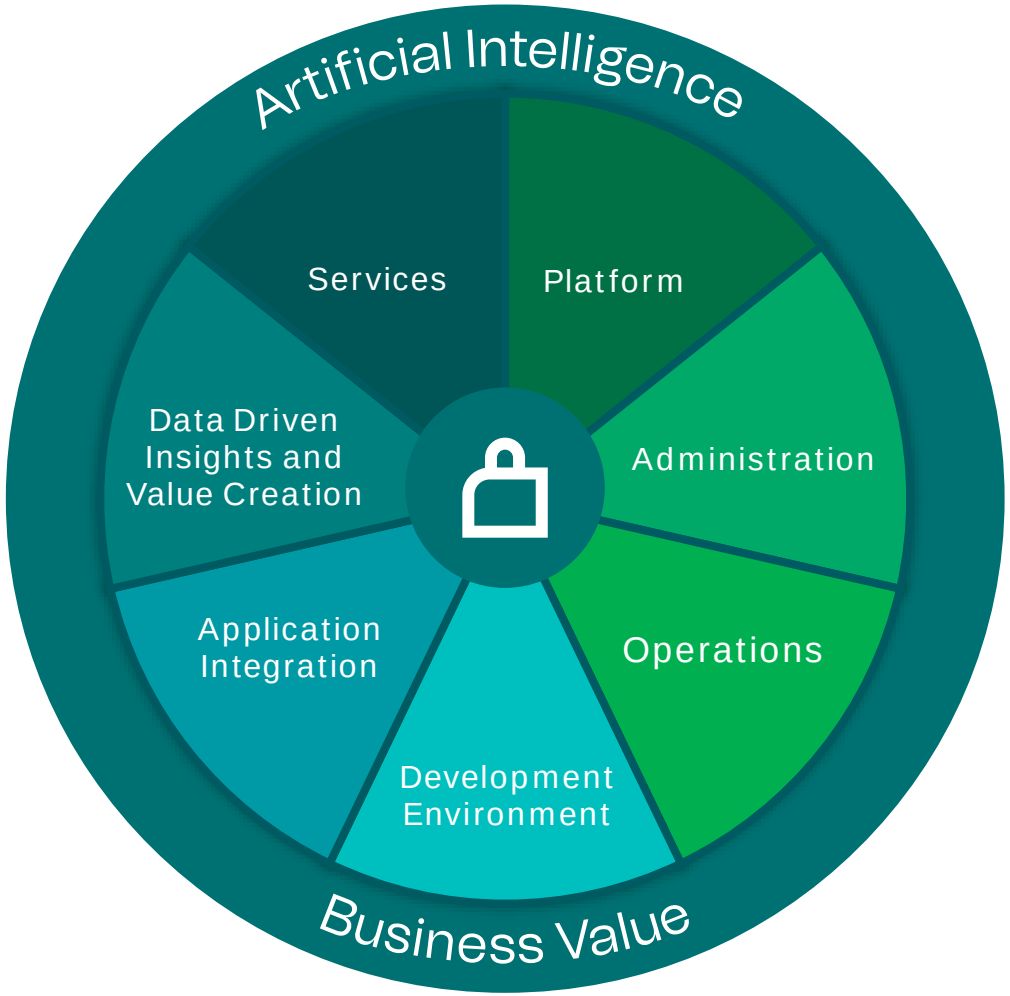
ClearPath 2050 positions the ClearPath ecosystem for the next generation of staffing and for integration with new technologies.

Examples:

- Applications can easily be enhanced and integrated to take advantage of new technologies, like AI and Quantum.
- As the secure store of proprietary data, you can gain insights and business advantage through analytics, mining, and machine learning of this data. That data can also be integrated with new technologies as they are developed.

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ClearPath 2050 and AI



AI Vision:

Pervasive Across ClearPath Where Beneficial

- Platform / Administration / Operations / Security
  - Digital Assistants
    - Journey Example: Passive, Predictive, Active
  - System Observation and Automation – Examples:
    - Dynamic Database Optimization
    - Dynamic Security Analysis
  - SLM/DSLM based UI – Operations, Administration, and End User
- Development
  - Code Generation, Scanning, Testing
- Application Integration and Data
  - Agentic AI – Calling In / Calling Out
  - Data Pipeline – Integration
    - Application Databases and Files, and System Data
      - Automatic Schema Descriptions and Mapping
    - Transactional updates
- Services
  - Advisory, Integration, Enhanced Managed Services
  - Knowledge Capture and Upskilling (Endurance)

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ClearPath 2050



Environment System Vision:
Always On, Automated, Dynamic, Secure Computing

- Digital Assistants and Agents
  - Passive and proactive
- Always Available
  - No downtime for updates or changes (hot updates/clustering)
- Self Managing, Healing, and Configuring
  - Detects and resolves issues, proactive monitoring
    - Dynamic optimization (database, disk), automated reporting
    - Dynamic security scanning, compliance, monitoring
- Capacity: Dynamic
  - Flexible licensing, instance creation, scaling up and scaling out
- Tapeless
  - Boot, archive, backup and recovery, automated and integrated

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ClearPath 2050



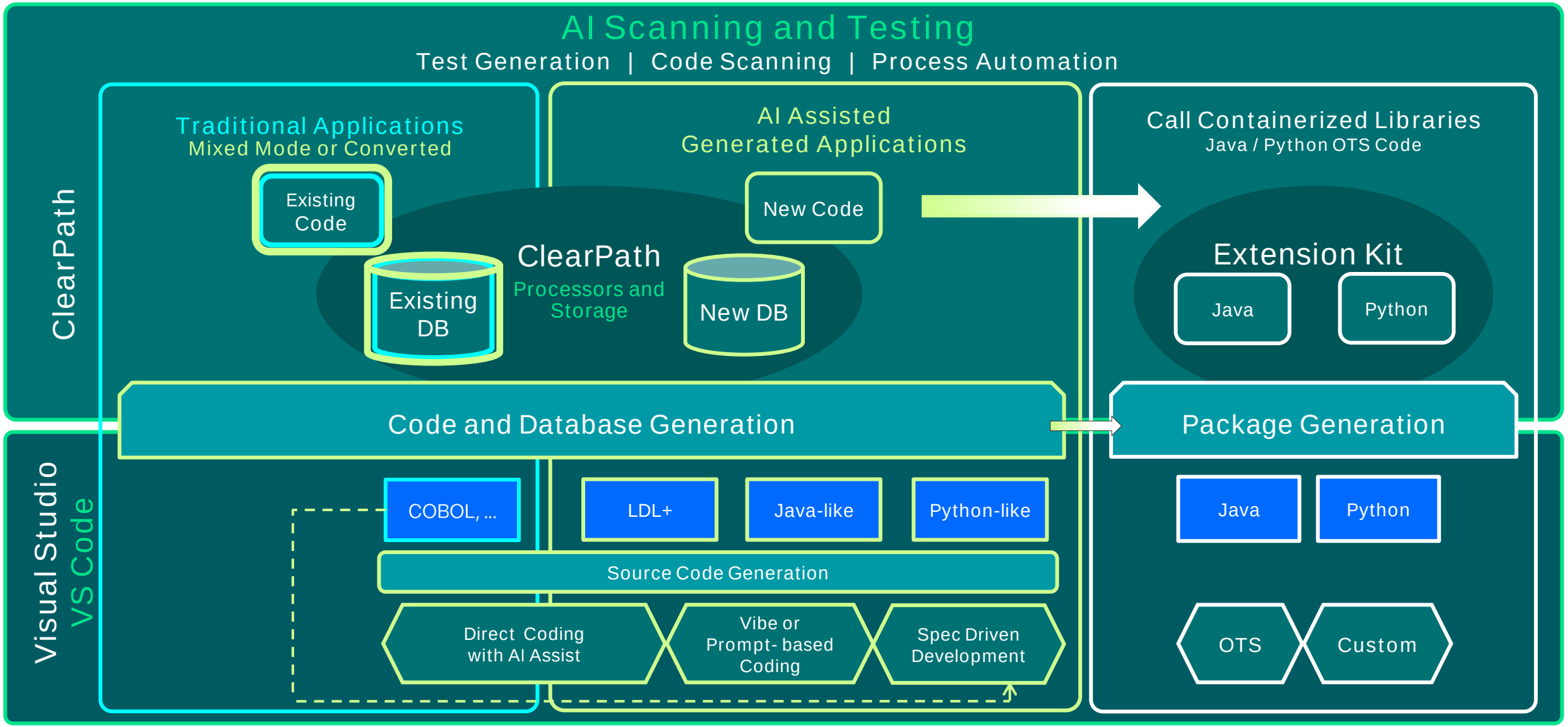
Application Development and Integration Vision:
Rapid Onboarding, Easy Integration, and Extensible

- **Modern Development Environment**
  - Vibe/Spec-Driven, Java & Python like code, AI scanning and testing
  - Call containerized Java/Python OTS Libraries
  - Import existing Cobol code and Databases
    - Mixed Mode or Converted
- **AI Automation**
  - ePortal orchestration, Data Exchange transformation
- **Data Pipeline**
  - Database/files/transaction (bulk transfer & changed data)
  - System logs
- **Agentic AI Integration**
  - Call in/out, transactions, and batch
- **Quantum Integration:**
  - Participate in classical + quantum algorithms

Applications and Data can be integrated with new technologies as they emerge

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ClearPath Strategy: Modern Development Environment



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ClearPath 2050



Roadmap – First Deliverables - 2026:
Preparing for the Future

- **ClearPath AI Developer's Toolkit**
  - How to integrate and add AI to your ClearPath ecosystem
  - Sample Programs / Templates
  - How to documentation
  - First Release planned contents:
    - Creating a Data Pipeline from DMSII to feed an AI/ML Engine
    - Call an AI Services from a ClearPath application
      - (COBOL sample available now, AB Suite coming soon)
- Endurance
  - Mitigates technical succession risk, preserve institutional knowledge, and align workforce capabilities with future-state roles
  - Captures undocumented processes, profiles key subject matter experts, and builds a resilient, compliant knowledge base
- Security
  - Crypto Discovery for Post-quantum Readiness

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ClearPath® Delivers – Security

Unparalleled data security as recognized and reported by NIST

NATIONAL VULNERABILITY DATABASE NVD

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY U.S. DEPARTMENT OF COMMERCE

NATIONAL VULNERABILITY DATABASE

Operating System	Number of Vulnerabilities	Date of Last Vulnerability	Compromised User Data
Unisys ClearPath® MCP	**5**	**01/12/2022**	**No**
IBM z	64	08/13/2026	Yes
IBM i	269	10/13/2026	Yes
HP-UX	481	08/12/2026	Yes
Oracle Solaris	766	08/12/2026	Yes
IBM AIX	992	09/10/2026	Yes
Unix®	1035	10/20/2026	Yes
Windows	17,242	10/22/2026	Yes
Linux	26,043	10/21/2026	Yes

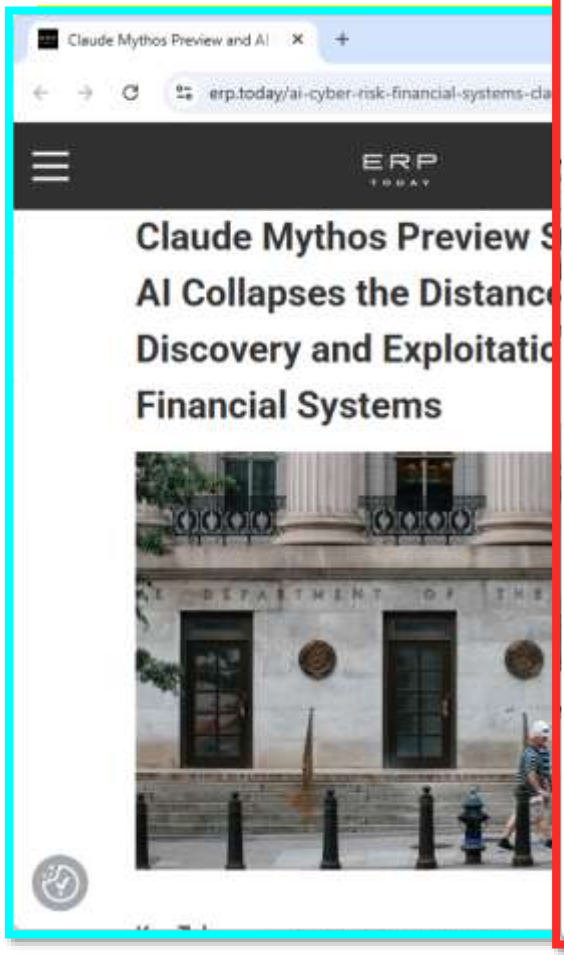
Data Taken: October 22, 2026

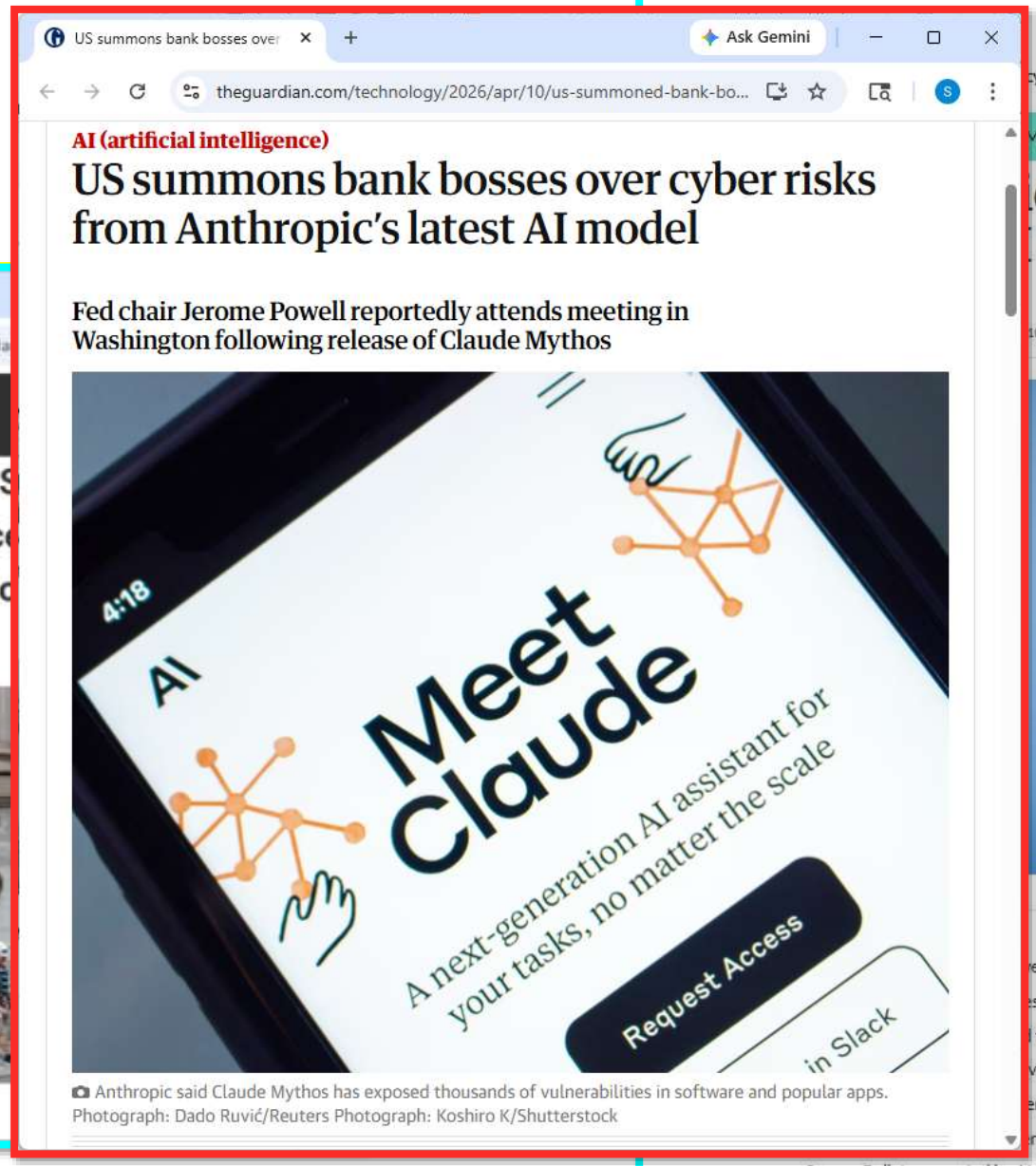
This chart was developed by Unisys and represents Unisys' interpretation of publicly available NIST data in the National Vulnerability Database which has compiled vulnerabilities since 1997.

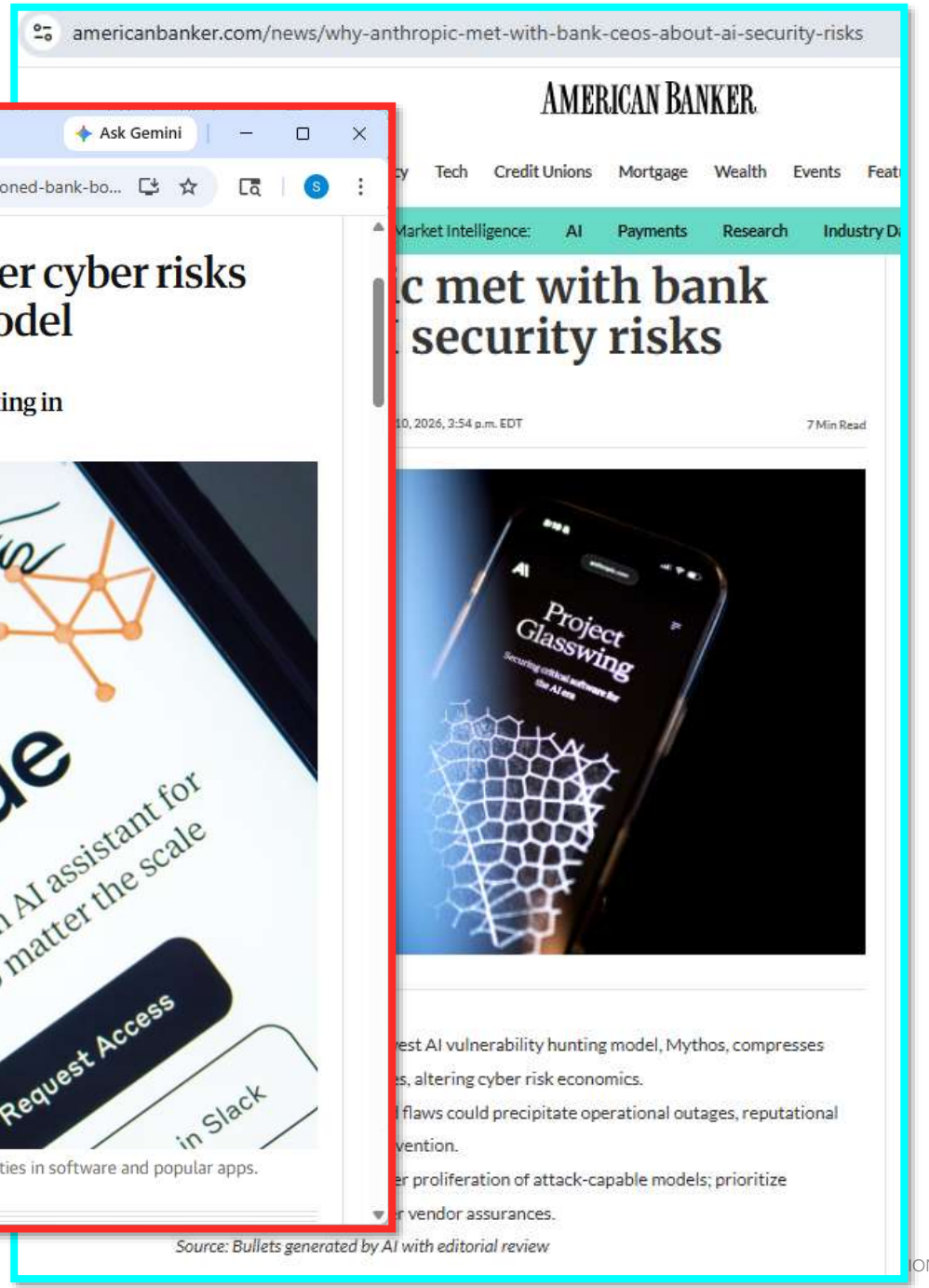
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RELEASED REDUCED CYBER CAPABILITY VERSION: FABLE 5

In the news: Claude Mythos







Anthropic Claude Mythos:
Cybersecurity Vulnerability Detection vs. ClearPath MCP

In early April 2026, Anthropic previewed their most powerful AI model called Mythos. This new model was able to break into major browsers, several open-source operating systems and libraries, and found zero- day vulnerabilities. https://red.anthropic.com/2026/mythos-preview/

Why do we care:

- The vulnerability found were typical software flaws / vulnerabilities.
- Anthropic says it found thousands of vulnerabilities, many decades old, and fast.
- Mythos was able to use these exploits in unique ways to be more effective.

Flaws found and used:

- Buffer Overruns
- Stack Smashing (Stack Overflow)
- ROP (return oriented prog) Attack
- Memory-unsafe coding
- JIT Heap spraying
- Generate Null Pointers
- Pointers are just Integers
- Privilege Elevation

ClearPath MCP Protection:

- Object Based Memory
- Stack Architecture System
- OS Managed Immutable Code
- No dynamically generated code
- No Physical Addresses
- Strong Data Typing
- Files are Strongly Typed
- No Privilege Elevation

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Summary

If Claude Mythos or similar attacks occurred on ClearPath MCP?

The Bottom Line:

- The most common, high-impact vulnerability classes highlighted in the article are prevented by the MCP architecture and operating system enforced design.

What can still happen:

- Logic flaws and application defects can still cause failures, including an application crash (denial-of-service). MCP protections limit these issues from turning into data exposure or full system takeover.

Why this matters:

- Reduced ransomware “initial foothold” paths
- Fewer high-severity emergency patches
- Containment of failures to outages vs. takeovers
- Protection from silent data exposure due to memory leaks
- More predictable audit narratives
- Operational focus shifts to ‘process risk’
  - Real-world risk tends to concentrate on access controls (who can run what),
  - Change management (what gets deployed),
  - and monitoring (how quickly anomalies are detected).

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Thank you

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