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What is Full-Stack Observability and How It Can Help You

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BRKAPP-4042



Cisco Webex App

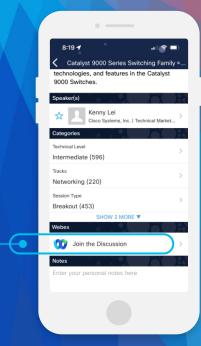
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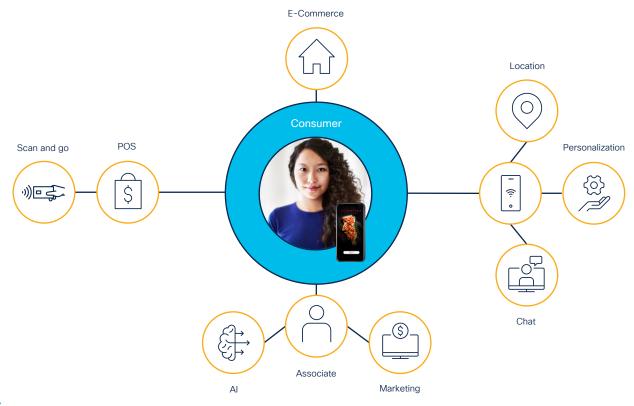


Agenda

- Introduction
- What is Cisco Full Stack Observability?
- Customer Interview Chevron
- What are the use cases of Cisco FSO and FSO platform?
- Customer Interview –US Bank
- Conclusion

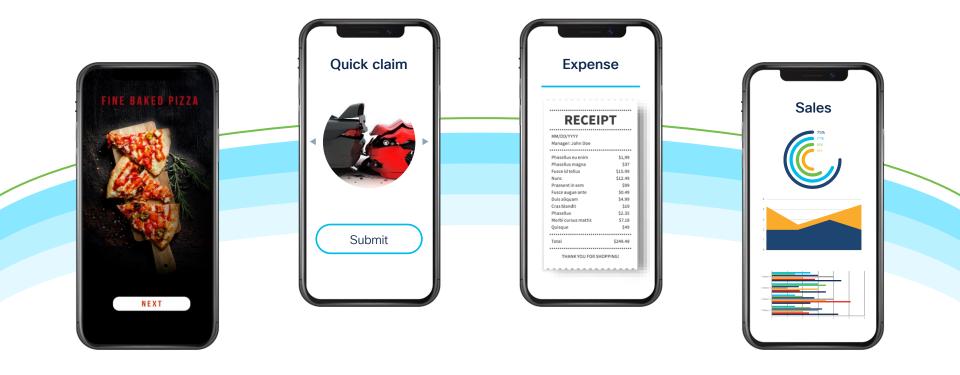


We live in an evolving and expanding digital world



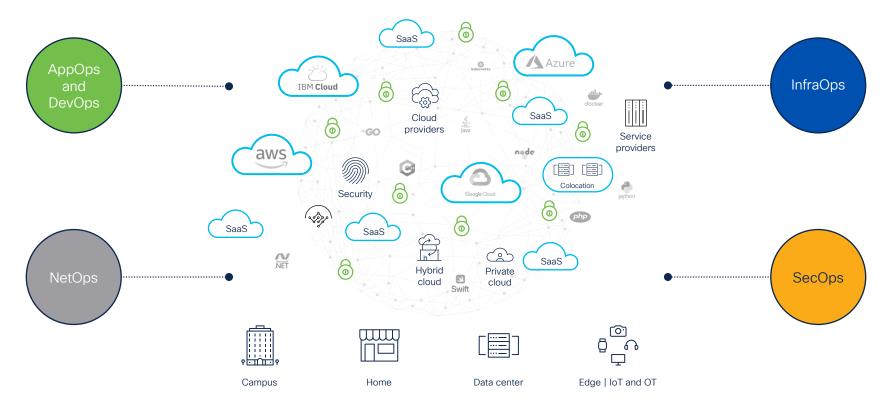


Applications are the front door for digital experiences





But applications are built in complex environment





Which leads to

56% Use more than 10 application observability/monitoring tools

60%

Say most observability tools serve narrow requirements and fail to enable a complete view

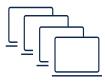
74% Struggle with data collection and correlation



Complexity



Data overload



Tool sprawl



Friction between teams





So, teams need to see the full stack of available data

Shared context across the digital experience





Cisco Full-Stack Observability

Full Stack Observability (FSO)

is a requirement for business to deliver the most optimal and secure experience to users and applications.

Cisco Full-Stack Observability brings together data from multiple operations domains to provide unified visibility, derive real-time insights and recommend actions helping to:



Focus on what matters most: revenue, user experience, risk, costs



Reduce time to resolution of incidents and performance issues



Minimize tool sprawl by providing a unified solution



Break down silos by reducing friction among teams



Customer Interview – Chevron





We're leaders in energy because we value responsibility, trust and integrity. This unwavering dedication to quality drives our company culture and will keep us ahead for years to





43,846 Employees



Active in 180+ countries worldwide



140+ years of human ingenuity



On track for 2023 renewable fuels target



Our purpose is to develop the affordable, reliable, ever-cleaner energy that enables human progress



Our vision is to be the global energy company most admired for its people, partnership and performance

Cisco Public

Cisco Public

Full Stack Observability Use Cases



Correlate performance and application experience to business results and proactively remediate issues.

- Gain deep app insight to continually improve performance and user experience.
- Understand the correlation between app performance, user experience, and business impact.
- Connect teams across domains and correlate risk with outcomes.

Make better decisions from the code-level to the C-Suite and beyond.





Modern Application Monitoring

Monitor performance of cloud native applications that leverage distributed cloud hosted technologies.

- Identify and resolve infrastructure-related performance issues across cloud hosted environments.
- Empower dev teams with future-ready capabilities that accelerate innovation.
- Efficiently optimize distributed cloud hosted resources and minimize costs.

Cut through the complexity and future-proof your investments.





OBSERVE

Understand external network dependencies negatively impacting user experience through increased visibility.

- Eliminate blind spots with real-time visibility from the end user to the application.
- Identify dependencies from the internet to the public cloud to enterprise networks.
- Correlate insights across application transactions—all the way down through the network path and internet routing.
- Deeper integration between AppDynamics and ThousandEyes to support assessment and urgency of issues.

Ensure app performance is driving business outcomes.



Customer Digital Experience Monitoring

End-to-end visualization of user, application, hybrid cloud, and internet performance.

- Visualize in one place the user, application, hybrid cloud, and internet performance.
- Manual correlation of business performance with application and internet performance.
- Deeper integration between AppDynamics and ThousandEyes for end-to-end experience and faster remediation

See and take action across the entire digital experience with relevant context.





OBSERVE

Hybrid Cloud Cost Optimization

Lower costs by paying only what you need in public clouds and safely increasing utilization of on-premises assets.

- Avoid public cloud over-provisioning and the associated cost overruns.
- Ensure application performance without incurring unpredictable public cloud costs.
- Avoid the underutilization of on-premises infrastructure.

Ensure application performance and operational efficiency.





App Resource and Workload Optimization

Tie infrastructure resourcing decision to the user experience

- Dynamically optimize resources and maximize positive business impact.
- Get visibility into how infrastructure resources are impacting user experience.
- Always deliver the best experience, no matter the load/stress put on the system.

Focus on your digital innovation initiatives and not infrastructure resources.





Application Security

Simplify the lifecycle of vulnerability fixes and security incidents by creating shared context across application and security teams.

- Identify vulnerabilities and threats within applications in production.
- Protect applications against threats and attacks in real-time
- Correlate security and business impact to prioritize remediations and compliance.
- Business Risk Observability integrating Kenna Risk Meter Score Distribution, Panoptica for API Security, plus Talos to integrate threat feed intelligence, all directly into Full-Stack Observability.

Catch exploits in moments, not months.



OBSERVE



OBSERVE OPTIMIZE SECURE EXTEND

Cisco FSO Platform with Partners

Open, Extensible and API driven platform that empowers a new observability ecosystem

- Built on OpenTelemetry and anchored on MELT
- Brings data together from multiple domains such as application, networking, infrastructure, security, cloud and business sources
- Customers get powerful, correlated, and more predictive insights that reduce time to resolve issues and optimize experiences
- Cisco has worked closely with partners to develop a diverse ecosystem of solutions. CloudFabrix, Evolutio, Kanari are partners will showcase their Cisco ESO solution at Cisco Live.

Built an ecosystem of developers and partners.





Customer Interview – US Bank







Headquartered in Minneapolis, MN



77,000 Employees in 13 countries



service.

2,000+ Branches in 26 states

innovation, social responsibility, and customer

U.S. Bank serves millions of customers

locally, nationally and globally through a diversified mix of businesses and has been

recognized for its approach to digital



1863

Founded



\$24B+

In annual revenue



No.150

On the Fortune 500



Mobile app earned more than 1 million 5-star **reviews** from customers



For the ninth consecutive year, named one of the World's **Most Ethical Companies** by the Ethisphere Institute.



of core consumer 82% customers engaged digitally with U.S. Bank





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Cisco FSO Platform

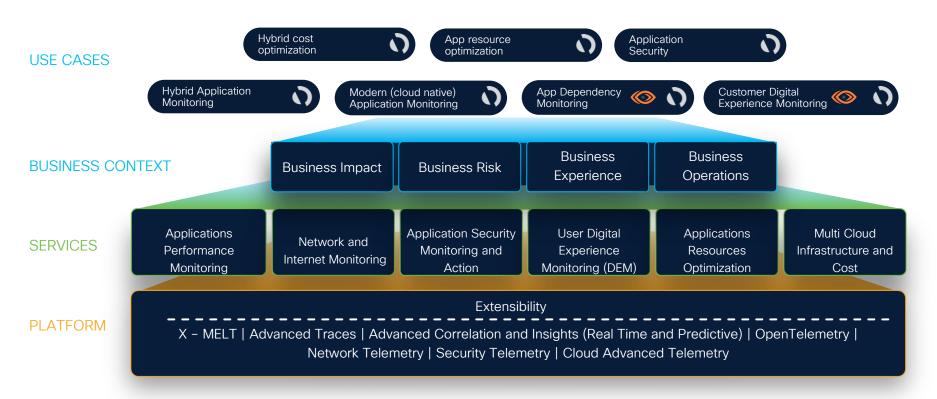


What is Cisco FSO Platform?

Open, Extensible, API driven platform built on OpenTelemetry and anchored on MELT



Cisco Full-Stack Observability Architecture Foundation





Cisco FSO Platform

Single platform for Cisco and third-party FSO applications

Multi-product integration platform

Ingestion and storage for compute, networking, security, public, and hybrid clouds

Cross-MELT troubleshooting

Anomaly detection and root cause analysis services across metrics, events, logs, and traces

Multiple sources → Single entity

MELT from multiple collectors are combined for a single entity view for multi-dimensional visibility

X - MELT | Advanced Traces | Advanced
Correlation and Insights (Real Time and
Predictive) |
OpenTelemetry | Network Telemetry |
Security Telemetry | Cloud Advanced Telemetry



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Cisco FSO Platform

Built for today, ready for tomorrow

Empower solution developers

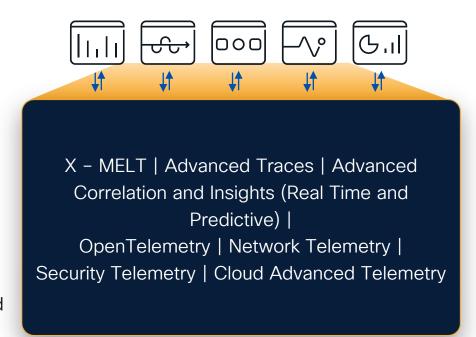
Giving 3rd party developers the tools to build new integrations

Extend FSO services

Create your own custom data models, custom APIs, and custom UIs

Create value-added solutions

Built your own and/or extend AppDynamics Cloud with enrichments, dashboards, custom experiences, and even full applications





Cisco FSO Solution Components



Evolutio Fintech

A Module on Cisco FSO Platform- created by Evolutio



Monitor KPIs relevant to the fintech vertical like credit card authorizations



Draw relevant business insights using the data ingested



View KPIs and insights grouped and aggregated based on metadata like region, schemas, infra components and merchants



vSphere Observability and Data Modernization

A Module on Cisco FSO Platform- created by CloudFabrix



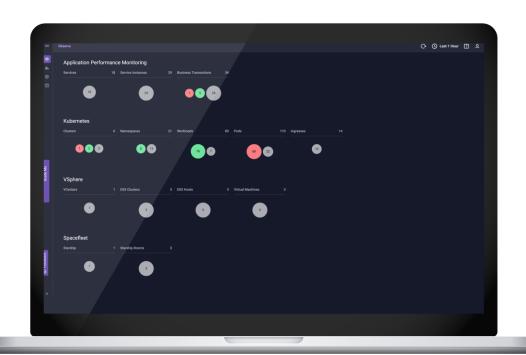
Observe vSphere through FSO platform



vShpere data is now enriched through correlations with Kubernetes and infrastructure data



Collaboration, event management, ITSM, and additional MELT integrations for non-OTEL end points



Cisco Full-Stack Observability offers

5%

Stacked discount on these packages and if you take optional CX services from us we provide another 3% discount

8%

Total package discount with services attached

FSO Essentials

Customer Experience and Partner Enablement

Extend observability with Cisco FSO Platform

Application security

Modern application monitoring

Hybrid application monitoring

FSO Essentials package provides full stack visibility, insights, and actions, tied to business context, across application monitoring and application security

FSO Advantage

Customer Experience and Partner Enablement

Extend observability with Cisco FSO Platform

Digital experience monitoring

Application dependency monitoring

Application security

Modern application monitoring

Hybrid application monitoring

FSO Advantage package provides full stack visibility, insights, and actions, tied to business context, across application monitoring, network and application security

FSO Premier

Customer Experience and Partner Enablement

Extend observability with Cisco FSO Platform

Application resource optimization

Hybrid cost optimization

Digital experience monitoring

Application dependency monitoring

Application security

Modern application monitoring

Hybrid application monitoring

FSO Premier package provides full stack visibility, insights, and actions, tied to business context, across application monitoring, network and application security and helps you to optimize resources

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Thank you





Cisco Live Challenge

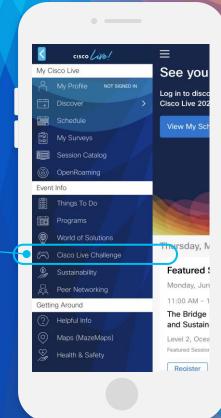
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