

Application performance in a multi-cloud world

**LEADING DIGITAL BUSINESS
TRANSFORMATION SERIES:
MODULE 5**



DIGITAL TRANSFORMATION IN A WORLD OF APPS

For many organisations, apps are at the very heart of business.

Early apps ran on bare metal services and were managed by IT services. Today they're dynamic, complex, are managed by a wider range of people, and exist in microservice environments and multi-cloud locations.

- Apps are the new business drivers
- Workloads are more distributed than ever
- Multicloud is the new norm

HOW DO YOU MANAGE APPS IN A COMPLEX WORLD?

Modern apps need to be simple for the end user.

But underneath lie complex challenges, like integrating with existing app and legacy environments, as well as meeting security and compliance requirements.

Information overload

Modern apps generate an overwhelming amount of stats and figures:

- **Business metrics** – new contracts, revenue, closed accounts
- **App triggers** – logins, video plays, add-to-carts
- **Lifecycle events** – errors, authorisations, throughput

TIME FOR AN OVERARCHING SOLUTION?

App developers and managers desperately need the ability to collect that valuable data, analyse what it means and then generate an appropriate response.

Cisco can help.

CISCO APPDYNAMICS

Cisco AppDynamics continuously monitors and reports on all the traffic flowing through an app.

Working like a central nervous system, it correlates information from apps, infrastructure, network and security. As a result:

- Decision-making teams are able to respond with appropriate actions such as scaling, network configuration, security enforcement and more

- Business owners, ITOps and developers can solve problems across the network, database or coding and make mission critical and strategic improvements

One dashboard. Countless capabilities

With AppDynamics' unified dashboard you can:

- View user experience data in real-time across all apps e.g. response times, number of calls, error rates and more
- Examine the number and type of dependencies between different apps
- Deep-dive to view app components and pinpoint problems before they undermine performance
- Investigate the customer journey to see how well an app is converting user interest into actual revenue



One dashboard. Countless capabilities

With AppDynamics' unified dashboard you can:

- **View user experience data in real-time** across all apps e.g. response times, number of calls, error rates and more
- **Examine the number and type of dependencies** between different apps
- **Deep-dive to view app components** and pinpoint problems before they undermine performance
- **Investigate the customer journey** to see how well an app is converting user interest into actual revenue

- **Focus on key components** and drill down to find the root cause of a problem – even as far as code level

AppDynamics can also help teams analyse infrastructure bottlenecks. But it can't take action. That's where CWOM comes in.

CISCO WORKLOAD OPTIMIZATION MANAGER (CWOM)

CWOM is a real-time decision engine that works across different environments.

Observe

It oversees workload consumption by continuously collecting data from an entire infrastructure wherever it exists – on-premise or in the public cloud.



Analyse

It uses sophisticated analytics to pinpoint the right action and allocate resources to avoid congestion and keep apps performing at their best. It might suggest:

- Moving a virtual machine to another host
- Increasing the number of virtual CPUs
- Rescaling microservice containers

Act

Whatever the recommendation, CWOM can perform it automatically or users can choose to handle things themselves.

TIME TO HARNESS A POWERFUL COMBINATION?

Cisco AppDynamics discovers and maps your business app topology and how it uses resources.

CWOM takes this info and then orchestrates actions in your IT environment so that app components have all the computing, storage and network resources they need.

No more educated guesswork. Just real-time analytics and modelling to make sure your apps and business keep pace with demand.

HOW CISCO SUPPORTS YOU

Cisco is here to put vital information and powerful, intelligent tools at your fingertips. Everything you need to maintain optimum app performance within technical and business environments that are increasingly diverse and demanding.

By automatically monitoring and responding to changes, Cisco's technology reduces the burden on IT teams – leaving them free to spend more time on the innovative solutions and strategic issues that can drive your business forward.

[Request a call](#)