

## MULTINATIONAL BANKING & FINANCIAL SERVICES COMPANY ENABLES RAPID GO-TO-MARKET IN ITS DISRUPTED INDUSTRY

With the **Turbonomic Autonomic Platform and Cisco**, this customer adopted self-managing infrastructure to support app and services teams' rapid development.

Turbonomic and Cisco delivered self-managing infrastructure that enables the rapid go-to-market strategies this banking and financial leader needs to compete in its disrupted market.



*Self-managing Cisco infrastructure has allowed the customer to focus on building out its next generation IT.*

### Challenges

- Operational practices of deploying in static 16-node cluster configurations had resulted in underutilized infrastructure.
- Service delivery was untenable: the manual approach to spinning up a VM was taking 6-9 months.
- Performance issues were bogging teams down in alerts and firefighting.

### Solution

- Automated VM placement across all hosts
- Increasingly automating storage vMotion across their global infrastructure

### Results

- Unlocked 3,790GHz of CPU, 7,75TB of Memory, and 2,148TB of Storage.
- Delivered a self-service portal that supports rapid, iterative development practices.
- Increased team productivity

## Overview

The banking and financial services industry has long been a highly competitive market. Today new technologies, development practices, and big data have democratized access to customers, further increasing the competition. Customer-centric digitization is critical to success in this industry. It has accelerated the pace at which IT must operate.

This Turbonomic-Cisco customer is a multinational banking and financial services company, serving customers in investment banking, asset management, private banking, private wealth management, credit card services, and other services.

## Challenges

As one of the largest banks in the world, the customer's infrastructure footprint includes 6,490 hosts and 56,000 VMs. IT struggled with numerous challenges:

- Operational practices of deploying in static 16-node cluster configurations had resulted in underutilized infrastructure.
- Service delivery was untenable: the manual approach to spinning up a VM was taking 6-9 months.
- Performance issues were bogging teams down in alerts and firefighting.

IT was finding that to operate at the pace of agile development and digitization, infrastructure and provisioning decisions could no longer be made by their people. The allocation-based model was too expensive and performance was unreliable.

## Solution

The customer deployed Turbonomic across its virtual server infrastructure (VSI), which consisted of VMware operating on Cisco UCS hardware. With Cisco and Turbonomic their IT achieves self-managing infrastructure. They automated VM placement across all hosts and are increasingly automating storage vMotion across their global infrastructure. Every decision is based on real-time app demand and matches it to the underlying compute and network fabric of Cisco UCS.

Going forward, the organization plans to roll out an Integrated Compute Platform (ICP) where placement, sizing, and provisioning decisions are automated across the complete lifecycle of every workload. Keen to fully enable workload mobility across the ICP fabric and in each datacenter, they plan to leverage Cisco ACI. Cisco ACI and Turbonomic will ensure that the infrastructure continuously adjusts to real-time provisioning and resource needs.

Additionally, they have decided that all of the Nexus switch purchases will be Tetration ready, in case they decide to leverage Tetration along with ACI in the future.

### BEFORE

- Underutilized infrastructure.
- 6-9 months for a new VM.
- Performance issues.

### AFTER

- Automated VM placement and storage motion, freeing up team resources and increasing density.
- IT able to focus on next generation infrastructure.

## Benefits

Self-managing Cisco infrastructure has allowed the customer to focus on building out its next generation IT. With performance assured across the global infrastructure, these teams were able to evaluate business needs and determine how IT can best support them. ICP is that next step.

## Results

Together Cisco and Turbonomic deliver self-managing infrastructure that enables the rapid go-to-market strategies this banking and financial leader needs to compete in its disrupted market.

The customer is on the path towards fully utilizing their resources, so far unlocking:

- 3,790GHz of CPU
- 775TB of Memory
- 2148TB of Storage

In addition, IT can deliver a self-service portal to its app and services teams that keeps up with their rapid, iterative development practices. The team is no longer bogged down with responding to alerts because the environment self-manages to assure performance.

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## ABOUT TURBONOMIC

Turbonomic's Autonomic Platform enables heterogeneous environments to self-manage to assure the performance of any application in any cloud. Turbonomic's patented decision engine dynamically analyzes application demand and allocates shared resources in real time to maintain a continuous state of application health.

Launched in 2010, Turbonomic is one of the fastest growing technology companies in the virtualization and cloud space. Turbonomic's Autonomic Platform is trusted by thousands of enterprises to accelerate their adoption of virtual, cloud, and container deployments for all mission critical applications.

Learn more at [turbonomic.com](http://turbonomic.com).

## ABOUT CISCO SYSTEMS

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Cisco creates leading products and key technologies to make the Internet more useful and dynamic. These technologies include: advanced routing and switching, voice and video over IP, optical networking, wireless, storage networking, security, broadband, and content networking.

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