

Arvato Systems harnessed Link11 Cloud Security on Platform Equinix\*, eliminating DDoS cyberattacks via a redundant network and security infrastructure.

# Challenge

Arvato Systems serves the IT needs of both internal and external customers. It offers solutions for multiple industries such as retail/e-commerce, media, healthcare and utilities. Given the increase in volume and complexity of distributed denial of service (DDoS) attacks, the company needed to scale the mitigation capacity of its data center and security architecture. Harnessing Link11's cloud-native DDoS protection service on Platform Equinix ensured that only "clean traffic" reached Arvato Systems' and its customers' networks.

"Removing the threat of DDoS traffic using Link11 on Platform Equinix allowed us to eliminate system failures from our internal and external clients, and gave us performant, reliable and cost-effective interconnection to multiple service providers."

Jochen Weper, Senior Product Manager, Arvato Systems GmbH

### Solution

Arvato Systems had previously deployed infrastructure in an Equinix International Business Exchange™ (IBX\*) data center in Frankfurt. To address its security challenge, the company selected the Link11 Cloud Security Platform, running on Platform Equinix. Link11's automated, cloud-native cybersecurity solutions enable enterprises and e-commerce, internet and data center providers to protect their infrastructure and web services against various types of cyberattacks, reacting in real time to defend against intrusions in under 10 seconds.



# **About Arvato Systems**

As an international IT specialist, Arvato Systems supports wellknown companies in digital transformation with a high level of technical understanding, industry know-how and a clear focus on customer needs. It develops innovative IT solutions, brings customers into the cloud, integrates digital processes and operates and supports IT systems. The company also maps entire value chains in the network of Arvato, a member of the Bertelsmann Group, shaping business relationships personally and in partnership with its customers.

arvato-systems.com



Arvato Systems transmits 90% of its IP traffic (8.3 petabytes per year, incoming filtered traffic) through the Link11 Cloud Security Platform via Equinix Fabric™. The traffic is checked and purified using artificial intelligence (AI) filters and mechanisms, ensuring that only "clean traffic" reaches the Arvato Systems network. This makes it possible for Arvato Systems to offer DDoS protection in the cloud for all its clients, making DDoS-related system failures a thing of the past.

### Use cases

### Resilient, multicloud infrastructure

Arvato Systems also needed to improve its network and system resiliency. The company engaged highly skilled Equinix Global Solution Architects\* (GSAs) to help it quickly deploy a geo-redundant multicloud infrastructure. The company replicated its infrastructure in Equinix's Frankfurt and Amsterdam IBX facilities, which were directly and securely connected to the Arvato Systems Internet Backbone and Link11 Security Cloud infrastructures over redundant 10 GB/s connections.

### Interconnected cloud service providers

The company also interconnected various cloud service providers (CSPs), such as Microsoft Azure, AWS and Google Cloud, to its infrastructure via Equinix Performance Hub\* and Equinix Fabric (see diagram below).

### Scale network capacity, reduce costs

By offloading most of its traffic onto the Link11 Cloud Security Platform via Equinix Fabric, Arvato Systems freed up network bandwidth capacity and system resources that could now be used for other business applications. It aggregated its multiple cloud connections through a single physical port using Equinix Fabric software-defined interconnection, decreasing the number of individual connections to WAN providers. This simplified the company's network infrastructure and reduced its networking costs. The automated connectivity via Equinix Fabric accelerated the high-speed, single-digit latency connection provisioning to the CSPs by up to 70% and increased the performance of moving internet traffic between the Arvato Systems and Link11 networks.

### **Easily migrate applications**

The company's new hybrid multicloud infrastructure also provided Arvato Systems with a fast and more standardized migration path to the cloud for existing applications, such as SAP HANA databases, as well as new application development. Looking forward, Equinix's global, open platform will allow Arvato Systems to deploy modern network technologies such as SD-WAN and leverage industry-standard DevOps automation tools such as APIs and Kubernetes-based containers.

# **Reinforcing security**

### Eliminated system failures

Removed the threat of DDoS attacks while reducing customer service calls by about 90%

### **Doubled bandwidth capacity**

Jumped from 20 GB/s to 40 GB/s for routing internet traffic to Link11

### Gained systems/ network capacity

Offloaded up to 70% of data traffic, gaining back critical systems and network resources

### Increased network/ system resiliency

Added internet connection redundancy and disaster recovery (DR) infrastructure

# Greater automation, faster cloud access

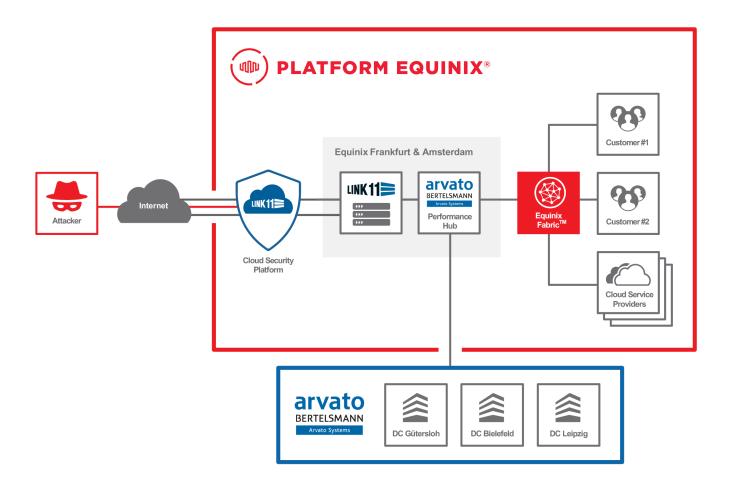
Increased interconnection automation, optimizing cloud connection provisioning time by up to 70%

# Private hybrid multicloud connectivity

Deployed private software-defined interconnection to key service providers







## **Scale cybersecurity infrastructure**

Equinix and Link11 helped Arvato Systems significantly expand the scalability and reliability of its DDoS cybersecurity infrastructure for its internal users and external customers while gaining high-performance, low-latency connectivity to multiple service providers. This solution provided Arvato Systems with the following benefits:

### Eliminated system failures

Permanent, automated DDoS protection of data traffic keeps systems up and running and has reduced customer service calls by about 90%.

### **Doubled internet bandwidth capacity**

Data throughput was accelerated by increasing bandwidth capacity from 20 GB/s to 40 GB/s to route internet traffic between Arvato Systems' and Link11's platform.

#### **Increased system capacity**

By offloading 90% of the Arvato Systems data traffic onto the Link11 platform, system capacity was restored for business applications and its internal network was freed up from high volumes of internet traffic.

### **About Link11**

Link11 is the leading European IT security provider in automated DDoS and other traffic-related cyber-resilience services. Its Cloud Security Platform provides world-class protection against DDoS and other cyberattacks through fully automated, real-time, predictive AI mitigation services. Its services are patented and built within its own global filter cluster network to ensure cyber-resilience for internet-dependent customers.

Link11.com



### **Greater network and system resiliency**

The reliability of Arvato Systems' network and systems was increased through redundant internet connections and replicated infrastructure between two Equinix metro data centers.

### Greater automation, simplicity and control

Greater automation of the network infrastructure reduced complexity and cloud connection provisioning time by up to 70%. The automation and increased network visibility also enabled Arvato Systems to free up critical personnel from the administrative tasks of managing and monitoring its network.

### Direct and secure multivendor connectivity for less cost

The software-defined interconnection to the internet, cloud and network providers via the Equinix Fabric portal made deploying hybrid cloud architectures (e.g., web servers located in the cloud accessing on-premises databases) faster and easier to administer. Network and cloud aggregation via Equinix Fabric also reduced the cost of connecting to various providers. The solutions/setup/infrastructures provided for Arvato Systems by Equinix and Link11 support the European data protection and data security regulations.

Arvato Systems Virtual Private Cloud with the Link11 Cloud Security Platform can be easily accessed by enterprises and service providers via Equinix Marketplace.

# **About Equinix**

Equinix is the world's digital infrastructure company™. Digital leaders harness our trusted platform to bring together and interconnect the foundational infrastructure that powers their success.

Equinix.com

# Ready to get started?

Your competitive strength depends on your digital infrastructure.

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## Power your digital leadership at Equinix

On Platform Equinix\*, digital leaders bring together all the right places, partners and possibilities to create the foundational infrastructure they need to succeed. On a single global platform, place infrastructure wherever you need it. Connect to everything you need to succeed. Seize opportunity with agility, speed and confidence.