Network Transformation

 $K2 \vee | \equiv \vee \vee \Rightarrow$ Data without delay.



Leading digital video provider solves dispatch problem, saves millions and improves customer experience

SOLUTION → Network Transformation INDUSTRY → Communications		Fabric integrates network and customer operations data in real-time to avoid unnecessary dispatches to customer's home.
SOLUTION	K2View Fabric integration of real-time network & customer data, coupled with logic to identify outages & drive proactive, and informed actions	 Data as a Service solution combining real-time customer and network data. Micro-services layer to expose data to call and operations centers Fabric logic analyzes outage alarms status for all households serviced by the same fiber. Call centers are notified not to dispatch to customer location using screen pops and the responsible crew is dispatched to fix the problem.
RESULTS	 ~\$50M in estimated savings Year 1. Breakeven ROI in just 2 weeks! 	 Estimated savings of \$50M in unnecessary dispatches in year 1 alone. Improved customer experience identifying route cause of failure and avoiding trouble customer call time and coordination of technician visit. Masking data enabled business analytics functions to move offshore reducing costs by 75%. Rapidly deployment of new rules based on fabric infrastructure



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SOLUTION → Network Transformation INDUSTRY → Communications K2View Fabric cracked the code on network data, combining it in real-time with customer data and exposing via micro-services for operational use.

CONFIGURATION

- Micro-DB per Customer
- 10K Network micro-DBs
- 3 TB of data in Fabric
- 2 Data Centers
- 6 Nodes
- 48 Cores

SOURCES

- Customer, inventory, and Order data
- Network alarm feed
- IPTV alarm feed
- Alarm correlation
- Customer equipment data



- Token-driven access to Fabric micro-services
- Designated as a mission-critical system
- Real-time correlation of alarms
 w/network levels
- Real-time correlation of alarms w/customer data



- 10K updates/day
- 200M alarms/month
- 75K records/day

Confidential

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Top U.S. video provider's network topology problems solved

SOLUTION → Network Transformation INDUSTRY → Communications Fabric stitches together disparate data from legacy network systems and provides built-in micro-services capabilities for improved network topology & faster development cycles



Network data trapped and scattered across legacy systems made it difficult to manage outages in a timely o proactive manner.

SOLUTION

K2View Fabric as single data layer across all network data systems.



 Shortened development cycle



- Connecting network data scattered across legacy systems was a complex, manual process.
- As a result, it took too long to respond to unplanned outages and planned outages resulted in lost revenue because it was difficult to identify and notify impacted customers
- Fabric as as single data layer across all network systems to:
 - Orchestrate complex network data
 - Eliminate complex integration
 - Replace current micro-services solution

- Improved customer experience & revenues
- Built-in micro-services capabilities shortened development cycle, reduced hardware required, and improved agility.
- Reduced time for invocation of a single micro-service from 153s to sub-second response time.



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FABRIC CONFIGURATION

- 88M Inventory micro-DBs
- 480M Circuit micro-DBs
- 3 TB of data in Fabric
- 2 Data Centers
- 6 Nodes
- 48 Cores

SOURCES

- Multiple Network Inventory Systems
- Acquired over time through acquisitions
- Legacy Mainframe, Golden Gate Replication, RDBMS



MAJOR FUNCTIONS

- Integration of network topology across systems
- Extension of circuit and inventory data via micro-services
- Provide an agile mS architecture development platform

STATS

- Improved performance from minutes to fractions of seconds for each micro-service call
- Reduced development time
- Reduced development cost
- Reduced cost of planned and unplanned customer outages



Major US Telco provider chooses Fabric to drive its back-office network digital transformation

SOLUTION → Network Transformation INDUSTRY → Communications Fabric powers digital transformation with microservices-based access to network data

CHALLENGE	Improving performance and maintainability of legacy Oracle-based architecture to better serve internal clients.	 Challenge Back-office organization must provide real-time access to network circuit and inventory data Complex and resource-intensive data consolidation process with slow business reactivity
SOLUTION	Deployed K2View Fabric as an end to end, ingestion, stitching synchronization and exposure of data	 Solution K2View Fabric created a network-centric consolidated view of the network data Current micro-services duplication & enhancement were connected to Fabric API layer (re-using existing SQL code)
RESULT	Simpler end-to-end architecture with dramatic performance improvements	 Results Real-time unified stitching of circuit data. Micro-services deployment cycle reduced to a days with 100x faster micro-service performance! Operating costs reduced via elimination of all customized Java application services into a centralized Fabric framework



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