Digital Transformation – Case Studies

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



Customer Data Hub delivers unified experience for North American wireless company to meet merger deadline

 $\begin{array}{l} \text{SOLUTION} \rightarrow \text{Digital Transformation} \\ \text{INDUSTRY} \rightarrow \text{Communications} \end{array} \\ K_2 View Fabric solution delivered in just 3 weeks, besting other options by 6 months. \end{array}$

CHALLENGE	Merger deadline to achieve common customer operations for \$5B acquisition.	 \$5B acquisition of 2 wireless competitors Desire to move to common systems but needed an immediate solution to serve all customers across the combined channels to meet government mandates for the merger. Previous partners failed, leaving only weeks to deliver a solution.
SOLUTION	K2View Fabric integrating data across 3 companies to create a Customer 360 solution supporting sales and service for 15M across 1000 retail stores.	 K2View Fabric as the single source of customer data across the three companies. Sourced data across acquired companies in real-time, exposing it for retail and call center. Supporting 15M customers in 1000 locations.
RESULTS	Met merger deadline and achieved cost savings in excess of \$2.75M.	 Speed: Solution was delivered in just 3 wks Strategic Value: Protected \$5B investment by meeting government requirements Cost Savings: Saved \$2.75M in infrastructure and manual work, and accelerated achievement of merger synergies.



Customer Data Hub delivers unified experience for North American wireless company to meet merger deadline

SOLUTION → Digital Transformation INDUSTRY → Communications

K₂View Fabric integrated data across legacy and new systems and deployed an embedded web-services layer to enable micro-services architecture

Partner

Interfaces

ACCESS

- Micro-service
- 1000 retail stores
- 1500 calls/secon





- No impact on legacy systems
- 100% availability since deployment
- New sources and channels added in days

CONFIGURATION

- 20M micro-databases
- 5 nodes
- 8 cores
- **Replication factor 3**





Customer 360 view created for self-service portal in 3 days

SOLUTION \rightarrow Digital Transformation		Global media & entertainment brand wins big with customers while cutting costs	
INDUSTRY Communications			
CHALLENGE	Poor customer self-service experience due to significant latency issues associated with retrieving data for portal from scattered systems.	 Customer data was scattered across multiple countries and systems Customer had poor experience with self-service portal because of significant latency Issues with data retrieval Legacy architecture, costly licensing fees and long development cycles were creating a high TCO 	°
SOLLUTION	K2View Fabric integrated data from across multiple countries & systems to improve customer self-service experience & cut costs.	 Speed: Quicker time to market and improved customer experience Know your customer: A normalized, 360 master view for 1M customers was created in 3 days Performance: Data latency from core systems was cut from minutes to milliseconds Cost-Savings: Immediate and on-going cost reduction of more than \$5M/annually Efficiencies: Customer Care cost reduction; efficient development; licensing fee savings 	360)
RESULTS	Customer 360 view created in 3 days; improved experience; >\$5M saved annually	 K2View Fabric was implemented to integrate and store data from three countries and a number of legacy technologies Customer-facing applications were integrated directly into Fabric Data masking was applied to appropriate data to improve security 	



Customer 360 view created for self-service portal in 3 days

SOLUTION → Digital Transformation INDUSTRY → Communications Fabric integrated data across multiple countries and systems, then deployed an embedded web-services layer to enable a positive self-service experience

ACCESS

- Micro-service
- Rest API
- 1.3 WS/hr

CONFIGURATION

- 20M micro-databases
- 3 data centers
- 1 Cassandra cluster
- 9 nodes
- 72 cores
- Replication Factor 3

SOURCES

- Real-time synchronization
- 7 distinct sources of data
- Across multiple countries.





Fortune 10 Telecom deploys Fabric DaaS, providing real-time access to customer information

SOLUTION → Digital Transformation INDUSTRY → Communications		Fabric powers digital transformation with micro-service based access to customer data.
CHALLENGE	Replacing Oracle DB with 200B records to improve performance, reduce cost, and improve time to market.	 Challenge Massive centralized customer DB was costly and slow to maintain and couldn't keep up with the demands of the business. DB was the single gateway to data for 120M customers and had become a bottleneck. Big data and MDM solutions wouldn't work because data had to be current.
SOLUTION	Deployed a fully distributed Data as a Service solution providing operationall access to customer facing channels	 Solution Access and organize data from 100's of systems into 120 customer micro-dbs. Replace 500 Oracle stored procedures with simplified web-services. Enterprise access via micro-services.
SULT	Dramatic improvement in performance and time to market for new services.	 Results Performance: Fabric performance is orders of magnitude faster than the existing solution. Strategic Value: Client adopting Fabric as the foundation for their transformation to a micro-services based architecture. Cost Savings: Fabric will reduce the hardware infrastructure size and cost by 80% and dramatically reduce the time and

- cost for new projects.
- Speed to Market: New services delivered in days vs 6 months average TTM. •

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Fortune 10 Telecom deploys Fabric DaaS, providing real-time access to customer information

SOLUTION → Digital Transformation INDUSTRY → Communications Fabric modernized IT's delivery of customer data by mobilizing data from hundreds of systems and exposing it through micro-services

- 500+ webservices Enterprise Bus
- All front-end
 applications

ACCESS

CONFIGURATION

SOURCES

- 5B calls/month
- 120M micro-databases
- 3 Data Centers
- 84 Nodes
- 672 Cores
- 100s of systems
- Golden Gate
- Data Router
- FTP







Statistics:

- 10k simultaneous calls in 26 milliseconds
- Fabric performance is 5 orders of magnitude faster
- Running on commodity
 HW





K2View Fabric take's Israel's largest player from zero to Customer 360 to support M&A activity in just 3 months

SOLUTION → Digital Transformation

INDUSTRY → Communications

Fabric integrates data from multiple systems to support Salesforce transformation

M&A data integration from CHALLENGE multiple complex sources to support cloud-based Salesforce transformation effort.

SOLUTION

K2View Fabric to integrate, store and expose data as an end-to-end Customer 360 solution.

ESULTS m End-to-end implementation in just 3 months to support Salesforce transformation

Challenge:

- Israel's largest quad player operator (3M customers) acquired one of the 3 biggest ISPs
- Customer Data spread over large number of complex legacy systems & sources
- Needed to implement transformation to new CRM Salesforce Cloud application (Vlocity)

Solution

- cloud application (Vlocity) and IVR to create an end-to-end Customer 360 solution
- Real-time sync updated products, services, financial & Billing information
- Implemented by customer with minimal support

Results

- Speed: E2E implementation based on multiple complex systems in just 3 months
- Ease of Implementation: Simple integration with Salesforce cloud application (Vlocity)
- **Performance:** 400 TPS with real-time sync for ~150 tables running on 3 nodes (6 cores each)



K2View Fabric take's Israel's largest player from zero to Customer 360 to support M&A activity in just 3 months

SOLUTION → Digital Transformation INDUSTRY → Communications Fabric brings together complex data from multiple source systems to support lighteningquick Salesforce transformation effort.





Modernizing applications & data service layers using a micro-services approach

SOLUTION → Digital Transformation INDUSTRY → Communications	K2View Fabric delivers big cost savings and improved speed to market, performance & security for Major U.S. Telco	•••••
Rising costs associated with updating hardware, software and licenses for legacy systems with limited agility	 Customer required to update legacy hardware, software and licenses at escalating costs. Current data infrastructure outdated and the processes being run (SQLs, Real-Time) also outdated and have not been reviewed for redundancy in the last 10 years. Current process to update the platform with multiple vendors required every 3 to 5 years minimum. K2View Fabric solution presented an opportunity to stop the required upgrading of multiple platforms and vendor by implementing a micros-services approach. 	ŝ
K2View Fabric as data overlay to legacy systems that organizes data around what matters, then rapidly exposes it to micro-services layer	 Client's processes converted to modernized micro-services through the use of K2View Fabric's proprietary approach to: Organizing data around the business entity Storing it in individually-encrypted micro-databases that are refreshed in real-time Then rapidly exposing the data to the client's multiple external applications that use the platform via Fabric's auto-generated web services 	
 Cost savings projected at >\$15M every 3-5 years Improved agilty Improved performance Improved security 	 Solution delivers modernized development through micro-services, unlimited scale, improved performance and security. K2View solution runs on 80% fewer cores, generating significant savings Speed to market, agility significantly improved Individually-encrypted micro-database methodology virtually eliminates risk of mass breach Cost savings projected over \$15M every 3 years to 5 years in reduction of modernizing platform 	
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Modernizing applications & data service layers using a micro-services approach

SOLUTION \rightarrow Digital Transformation	K2View Fabric delivers big cost savings and improved speed to market, performance &
INDUSTRY → Communications	security for Major U.S. Telco

FABRIC CONFIGURATION

- Fabric as real-time data overlay to legacy systems
- Separate micro-services containers may hold different components
- Fabric RESTful services replace real-time interfaces with client applications

RESULTS

- Savings >\$15M every 3-5 years; runs on 80% fewer cores
- Improved performance
- Improved security due to individually-encrypted microdatabase structure
- Improved speed to market





K2View Fabric wipes out archiving & purging woes

Major Telco decreases TCO while drastically improving performance

SOLUTION → Digital Transformation

INDUSTRY → Communications

CHALLENGE

more cost effective, better performing archiving & purging solution.

Major Telco needed to

SOLUTION

K2View Fabric rules-based decisioning, purging and Fabric layer archiving solution.

RESULTS

TCO slashed by 75% while drastically improving production performance.



- Major Telco needed to purge & archive data from production systems to improve performance, decrease cost & usability of production.
- Archiving needed be consistent & performed at the customer level
- K2View created a rules-based purging process to simplifying complex decision-making.
- The solution archived data in Fabric, for easy re-usability
- Cost of ownership decreased by over 75%
- Production performance improved
- Running upward of 48,000 rules per second on each instance



K2View Fabric delivers data from silo-ed systems to fuel self-service portal for >2M payment processing merchants

Improves customer experience while reducing call center costs & metrics

SOLUTION \rightarrow Digital Transformation

INDUSTRY → Financial Services

CHALLENGE

Create a real-time self-service portal to improve customer experience and provide unified view of the customer funds/portfolio.

SOLUTION

K2View Fabric as integrated, real-time data layer across 8 systems to power self-service portal solution.

RESULTS

Real-time 360-degree customer view for self-service portal in just 3 months.



- Merchants required to call into service desk, creating poor experience an high operational cost
- New customer insurance & saving information data requirements driving self-service needs
- Legacy systems not integrated; lengthy, capital-intense modernization required
- Fabric as the integrated data layer across 8 systems
- · Real-time on-retrieval updated funds information
- Front-end using Fabric's API layer as middleware
- Login Verification & data analyzation with BI tools
- Self Service Portal build on top of Fabric for > 2M merchants

Results

- ROI of over \$10M over 3 years
- Lower Development and Implementation costs
- Reduced calls and Average handle time for reps
- Less Merchant Churn