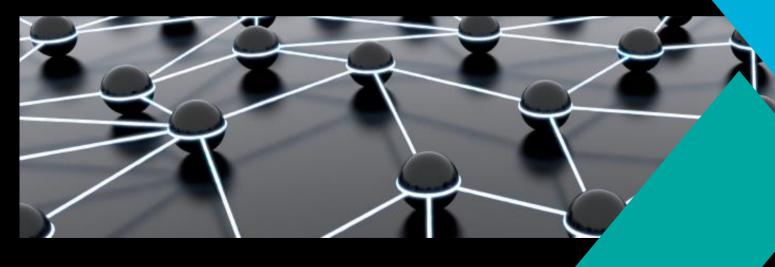
BusinessConnect and SolutionsConnect

It's time to make bold moves.

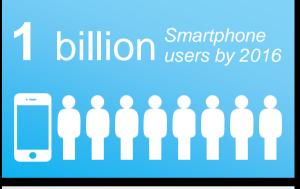
Interactions to Transactions







Business transactions have moved beyond the enterprise... The planet is wiring itself to a new nervous system

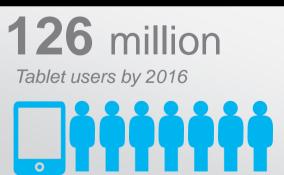






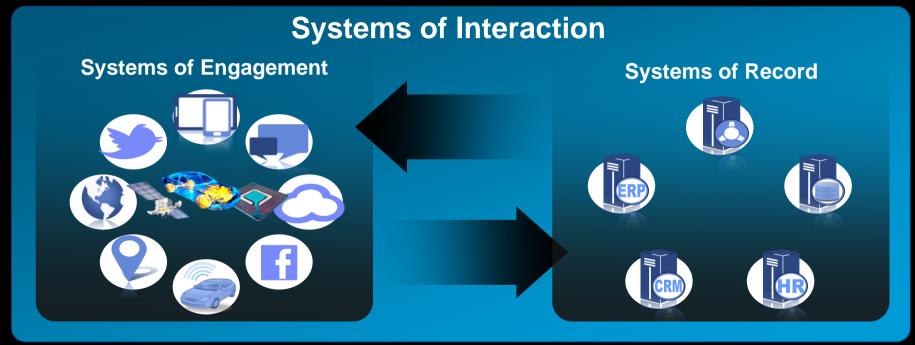








Bridge tomorrow's innovations with the systems that power the businesses today

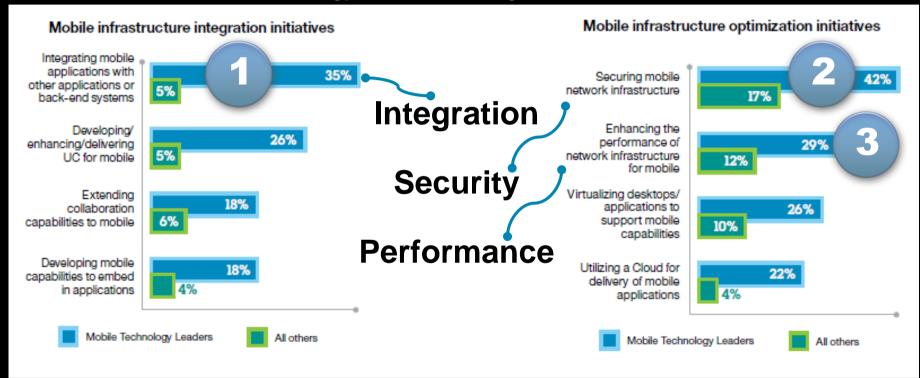


Business transactions have moved beyond the enterprise..



Best Practices of Mobile Success

What are the Mobile Technology Leaders Doing Well?

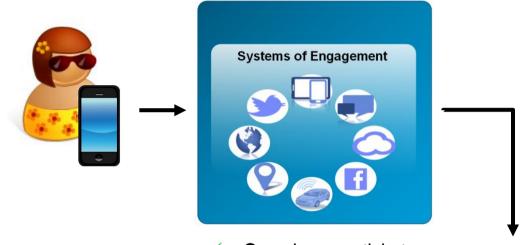


Source: IBM Global IT Study on Mobile Infrastructure 2013



When Systems of Engagement are unplugged...

Customer uses Mobile app to interact with eg Airline



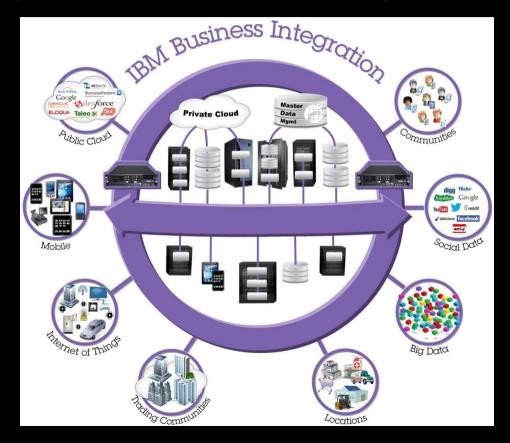
- ✓ Can show my ticket
- ✓ Can show my seat
- Can see upgrade option
- ✓ Can check flight status



- Can't change my ticket
- Can't move my seat
- Can't buy upgrade
- Can't change flight



Today's challenges demand a complete integration solution

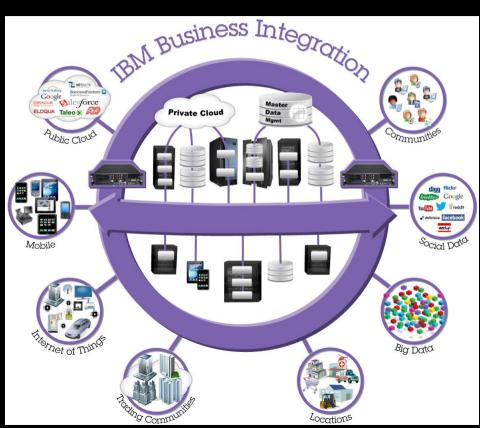




Today's challenges demand a complete integration solution

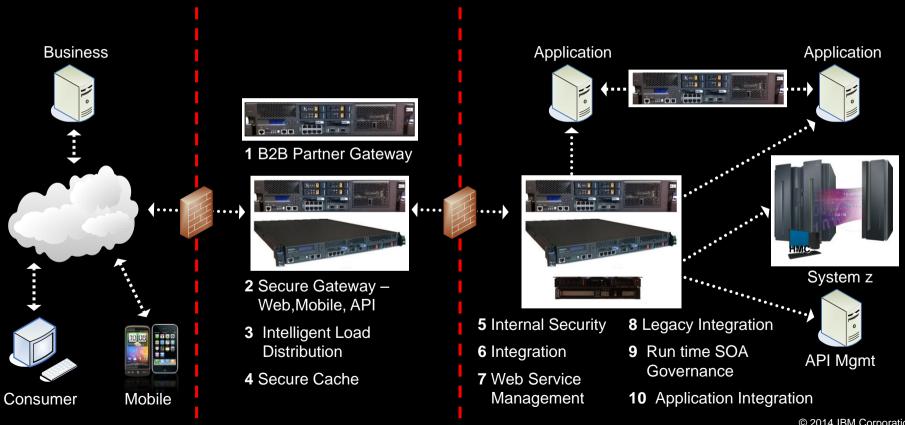
IBM DataPower Appliance

Gateway for secure & controlled access to enterprise resources,





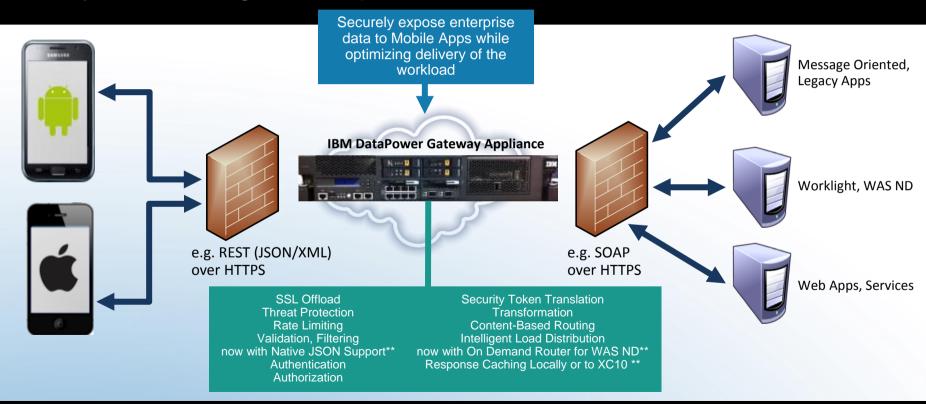
WebSphere DataPower - Use Cases





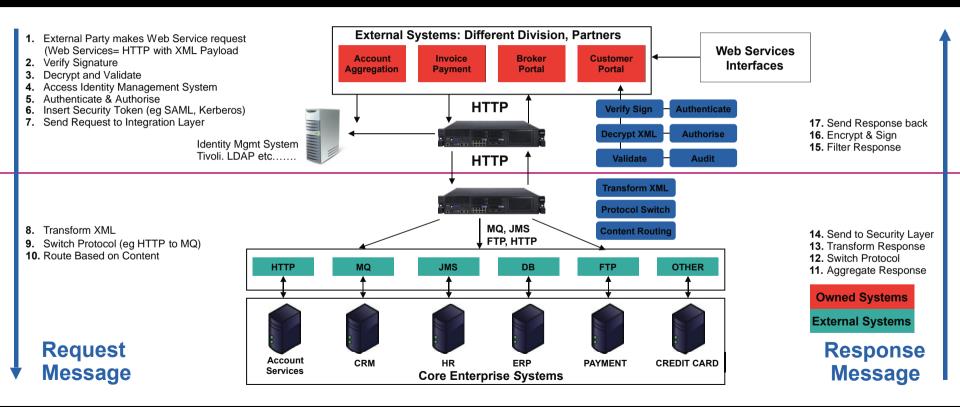
Connect Mobile Apps with Enterprise Apps & Services

Security, Control, Integration & Optimization of mobile workload





Financial Firm: Security & Integration Scenario





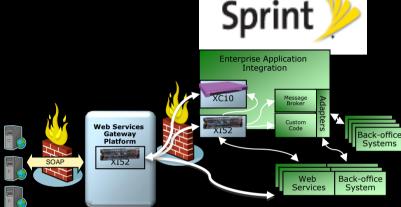
Sprint leverages IBM DataPower appliances to rapidly & securely grow revenue

Challenge

- Missing out on new opportunities in mobile advertising
- Aggressive growth in mobile creating new opportunities.
- Differentiation with Sprint profile information
- How to increase topline revenue
- Increase in competition from non-traditional companies
- no longer just the other carriers

Solution

- WebSphere DataPower Integration Appliance XI52 and XC10 Caching Appliance for mobile access control and security, wirespeed performance & consistent operational environment
- Deployed as a Mobile gateway, providing schema validation & trust formations
- Augmented existing infrastructure



Powered by

Benefits

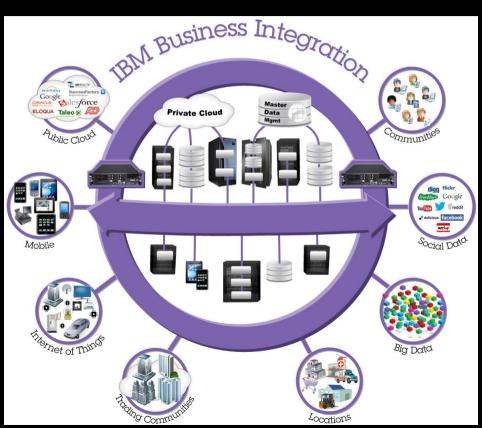
- Fast speed to market
- Low development cost
- Well established operational support (within Sprint)
- Deployed within secured Sprint network
- Secure connectivity to dependent systems
- Sprint controlled data security
- Scalable as volumes grow
- Ability to maintain a consistent interface to clients regardless of backend changes



Today's challenges demand a complete integration solution

IBM Cast Iron

Synching data with SaaS apps to leverage new cloud economy

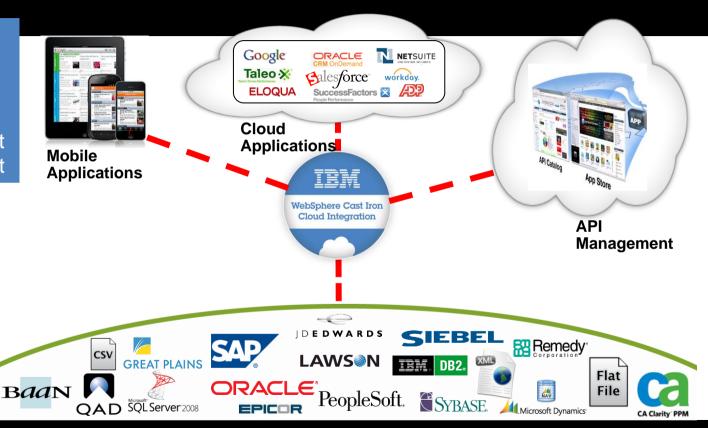




Application Integration - Cast Iron

Simply the Fastest Way to Integrate Cloud and Mobile Applications

Enabling component for API Management





Flexible: Completely Maps to Your Cloud Strategy



Total Connectivity

Deployment Flexibility

Repeatable Success

For All Types of Projects

ROI In Months

Reduce Risk & TCO Save Up to 80% in Time & Costs

Increase IT Self-Sufficiency



Novartis Vaccine & Diagnostics Evolving CRM Landscape

Challenge

- Consolidating multiple CRM platforms to a single Veeva org
- Increase efficiency and data quality through more robust integration to SAP and other core applications
- Enhance business users trust in data
- Increase flexibility and responsiveness of integration layer

Solution

- Internal standard = SAP PI
 - No native Sales Force Dot Com connectivity
 - Expensive skill set
 - Limited resources

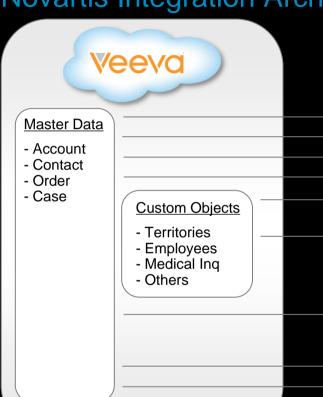
Solution

- Reduced TCO by \$300k
- ROI of 199%
- Payback of 4.8 months





Novartis Integration Architecture





Accounts
Account Detail

Orders Invoices

Employee Status

MIF Signature

Case Details

Account Detail

Customer Mapping



- ECC
- HR
- BW

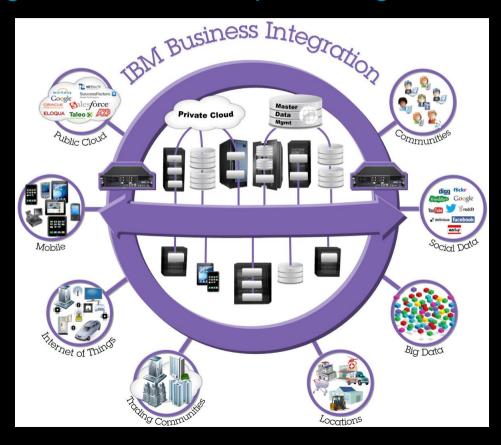


- Customer Service
- Medical Inquiries





Today's challenges demand a complete integration solution



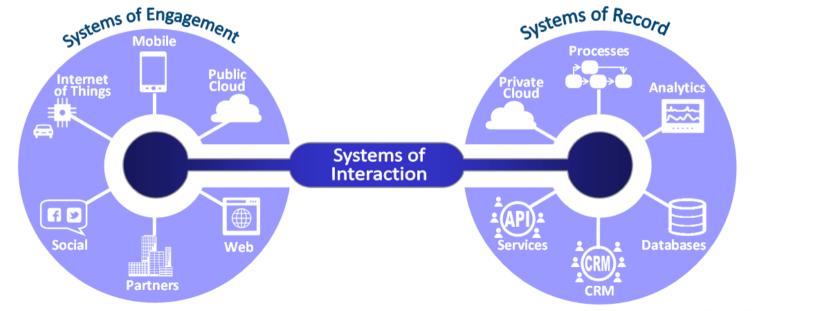
IBM Web API Management

Manage your APIs to open up access encouraging innovation from App Developers



Systems of Interaction open Systems of Record

- Provide secure linkages from systems of engagement
- Extend the lifespan and utility of system of record data
- Empower mobile and cloud application deployment



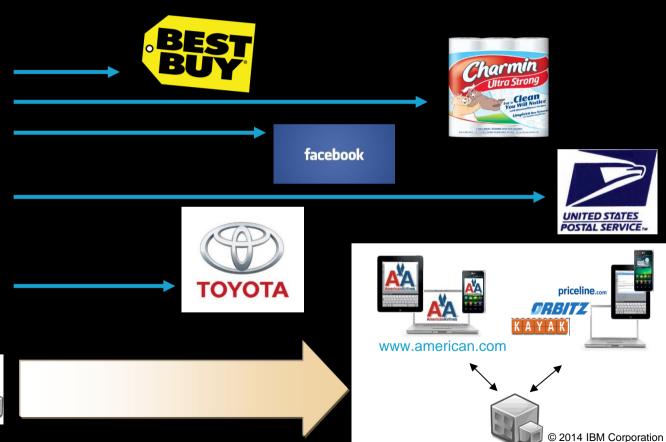


The Impact on the Enterprise

Business

- New routes to market
- Reduce cost of sale
- Drive brand awareness
- Customize products/offerings
- Increase innovation
- Drive alignment with suppliers
- New revenue sources
- Reduce operating expenses
- Customer Satisfaction







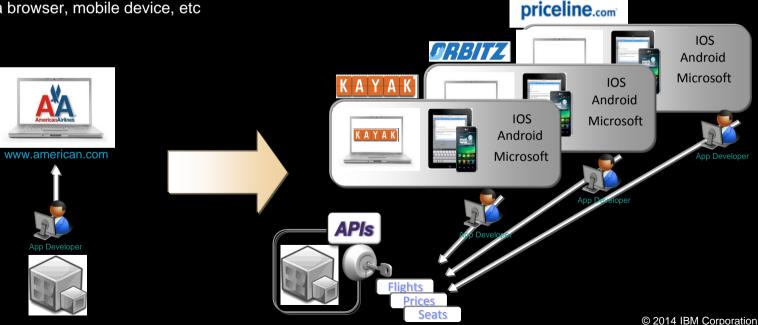
Accommodating Explosion of Data with APIs

What is an API?

- Exposes assets, data or services
- Simple for developers to access, use and understand
- Easily invoked via browser, mobile device, etc

What value does an API provide?

- Extends enterprises & opens channels
- Increases collaboration
- Extend resources/developer ecosystem





Apps, APIs and API Mgmt...



Apps = Customer facing systems of engagement (Ex: mobile app, web app, etc)

APIs = Exposes assets that developers use to create Apps



API Management = Capabilities needed by enterprises to extend APIs to developers, partners and communities.



Travel and Transportation: WestJet - Second Largest Airline in Canada





Business Challenge

External business partners are retrieving flight information by scraping the westjet.com website

Allows unauthorized access to full flight information (No analytics)

Delays in updating westjet.com – difficult for authorized partner to test changes

REST Based API had just been built but security was not in place

Value of API Management

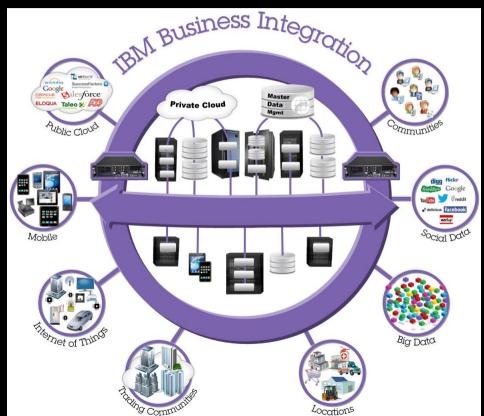
- First project will connect westjet.com to the new APIs using APIM
 - Saved cost of building OAUTH based secure access
- Next Phase will expose to External Business Partners
 - Save the implementation cost of building a developer support infrastructure and access management
- Mobile Access is still being worked out (Worklight vs. APIM)n



Today's challenges demand a complete integration solution

Message Sight Appliance

Large scale connectivity for mobile devices, machine to machine and telemetry scenario





The Internet of Things instruments the world around us

Smart Scales:

Tracks weight in combination with fitness program

Connected car:

Tracks location, status of car parts

Smart TV:

On demand content Order products from advert



Alarm clock:

Has remote programs, turn on coffee maker



vendingMachines asset-management

water

monitoring

asset-managemen smartGrid a SmarterCities ≤ Sensors S



Building Automation

Automation manufacturing To Homefleet Management

containerTracking

Security # Smart gGas security



Heating and Air

Smart Deliveries: Track parcel

Monitor and open garage door remotely on arrival

Building Security:

Facial recognition, remote notification

Coffee maker:

Custom settings for each person



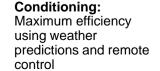
Smart Fridge:

Uses RFID to reorder food, suggest recipes and track sell by dates



Mobile:

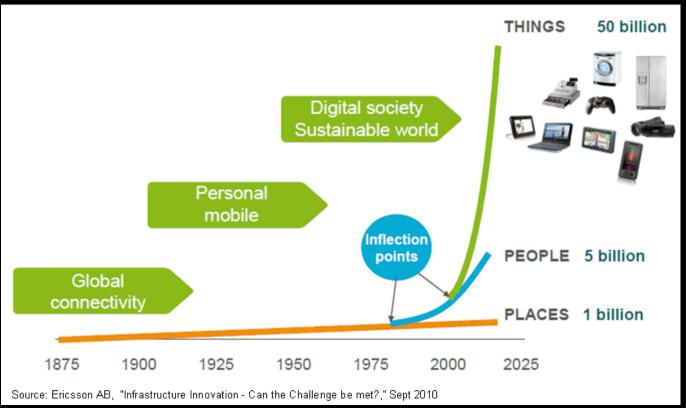
Mobile payments





New Customer Interaction Points for the 21st Century

Devices & Mobiles will be the touch points that drive new revenue streams





Internet of Things Examples

	Banking	Healthcare	Automotive	Retail	Transport	E&U
\$\$\$	Cash replacement solutions Mobile Banking	Paid home care family services	Pay-per-drive car rental	Cash replacement Sensor enabled Loyalty cards	Paid Alerts to travellers	Pay-per-use energy
Monetize					Congestion charging	
Optimize	Optimized Cash management	ER Bed Resource Mgmt	Component predictive replacement Fleet mgmt	Delivery and stock replenishment optimization Store layout optimization	Smart Cities Traffic mgmt Airport Management	Delay non-essential supply during peak loads
Extend	Banking the un-banked Biometrics Smarter Subsidies	Life style monitoring	In-car Movies, Music, Games Highly Automated Driving	Smart Vending Machines Delivery Lockers	Mobility Services	Smart home services
Control	Remote ATM Management Dynamic Authorization	Remote Hospital environment Mgmt	Remote Drive-train optimization	Store energy mgmt Store parking mgmt Dynamic price labels	Crowd mgmt Timetable mgmt Asset mgmt	Remotely control consumer devices



Retailers Advantage vs. eTailers



Monetize – Traditional Retailers business is challenged: How do they convert foot traffic to sales? eTailers are stealing their business, turning them into 'Showrooms

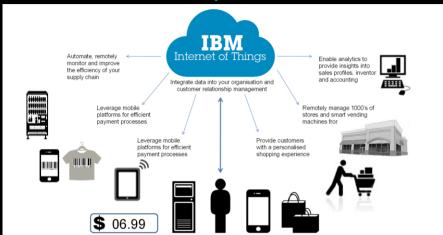
Retailers are looking at:

- Drive increased retailer revenue by proactively targeting mobile customers, genertaing dynamic personalized cross-sell and up-sell based on activities and location
- Capture and correlate customer buying activities in real time to track and measure effectiveness of offers and maximize opportunities for increased selling
- Interact more directly with the customer the instant they are spending for increased customer satisfaction to provide face to face chat with store assistant for questions about a product or linking to other customers in store looking at similar items



Walgreens & Saks teamed up with Foursquare to offer customers electronic coupons on their phones the moment they enter a store.

Omnichannel WebSphere Solution Set



- Retail Headquarters with IBM MessageSight, IBM Integration Bus, ODM to process events and generate interactive shopping experience
- ODM for data filtering and action automation and Events with to capture real-time awareness
- Front end interactive mobile application developed with IBM Worklight enhances customers in store experience
- API Management, MessageSight, IOT Cloud for systems of interaction (IOT data interaction) and extend data services to customers (ex Foursquare integration)
- IIB Retail Pack and BPM for Channel Integration



Appliances/Electrolux Story



Extend – Making it easier for their customers to operate in a Smart Home, Electrolux is embarking on a project to implement connected appliances. Strategically, Electrolux understands that extending services means survival in the future of white goods.

Imagine integrated recipes suggested through social integration, automated shopping lists from your refrigerator to your store



Control – One of the services offered to customers is the ability to control everything from their mobile devices – power management, service integration, integrated recipes



Whirlpool is working with GBS on a similar project.

White Goods WebSphere Solution Set

- Mobile and MessageSight to extend human remote control and interaction with appliances, ODM for real-time event management
- •IIB, DataPower for back-end systems (SAP) data collaboration and partner integration gateway
- •API Management for systems of interaction (IOT data interaction) and Data extension and monetization with partners

