Pu se Comes to You



Managing the World's Intrastructure

Partnering for Success

Smarter IT infrastructure at Bharti Airtel

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Hello ! Everybody



Speaker Mehul Shah CIO – Bharti Airtel (Telemedia) Chief Architect-Bharti Airtel

Co-speaker Arun K Madan SSF Leader & Lead Enterprise Architect IBM India (GTS - SO)

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Agenda

- About Bharti Airtel
- Enterprise Architecture
- Managing Infrastructure
- Secured Sign On Framework (SSF)
- IT Systems Management Framework (ITSMF)
- Session Summary
- Q & A







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Bharti Airtel





Bharti Airtel





business parameters

	Mar, 2004	Mar, 2009
Customers (M)	7	96
Revenues (\$M)	1,113	6,752*
Employees (K)	5.5	25.5
Call center agents (K)	5	30
CDRs/day (M)	150	2,900
	* As of Mar, 2008	

IT parameters

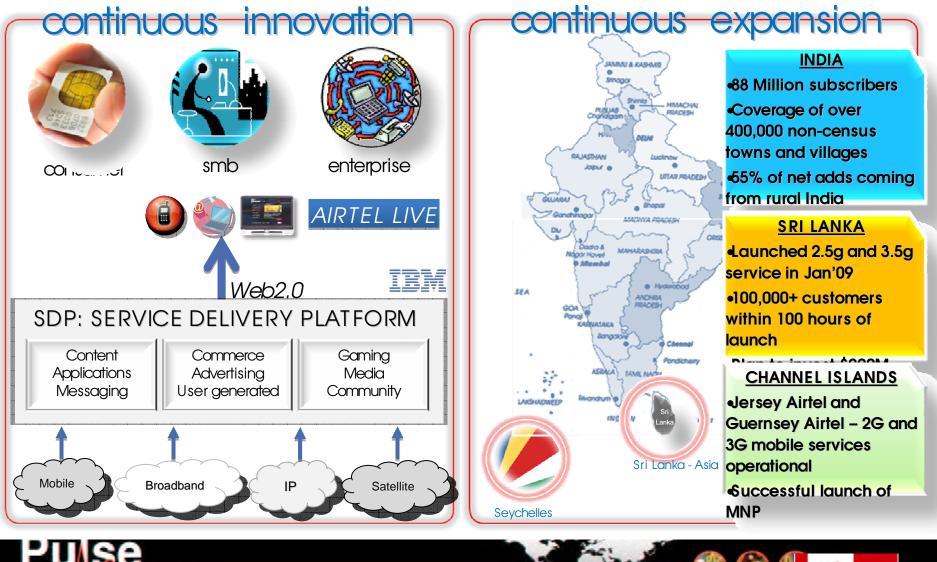
Airtel	Mar, 2004	Mar, 2009
Servers	500	3,500
Storage (TB)	125	2,500
Bandwidth (MBPS)	550	11,500
IT employees	300	175
Outsourced employees	15	3,200







Bharti Airtel



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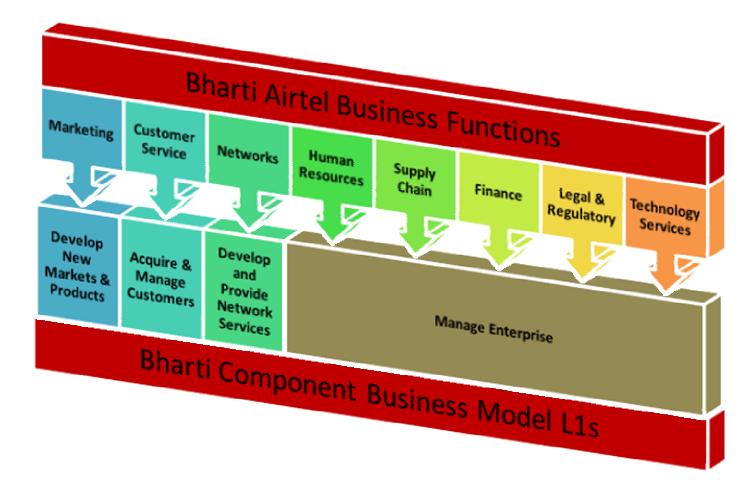
Enterprise Architecture

Bharti Airtel





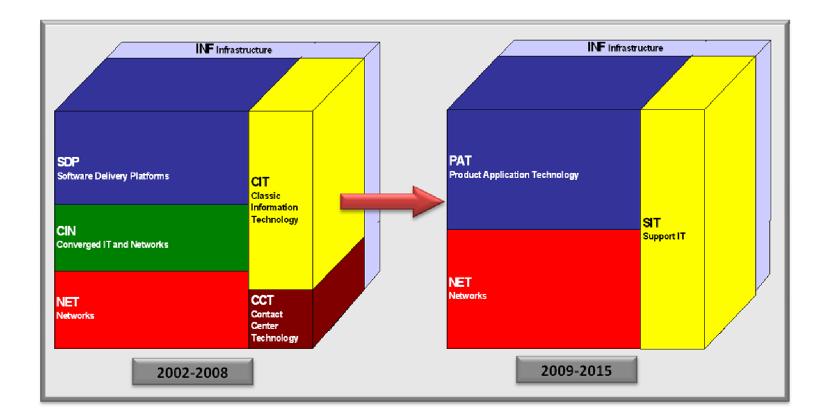
IT-Business Alignment







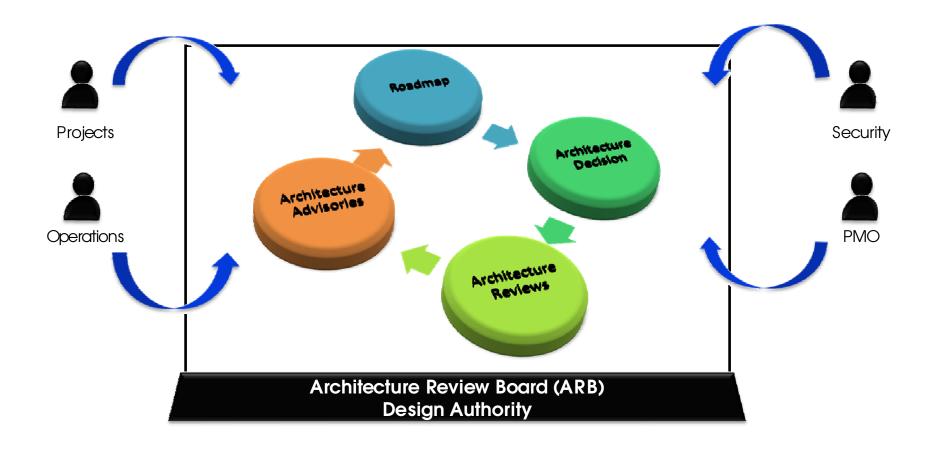
Macro Architecture Cube







Architecture – Building Blocks







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Infrastructure Frameworks

Secured Sign on Framework (SSF)

IT Service Management Framework (ITSMF)





Secured Sign On Framework (SSF)



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Why SSF

Employee Convenience

- Single Sign On to multiple applications
- Enhanced On-boarding experience,
- Self services for password reset

Enterprise Level Security Control

- AAA security
- Role Based Access
- CBN audits
- QEV audits
- ID Lifecycle Management

Operations Automation

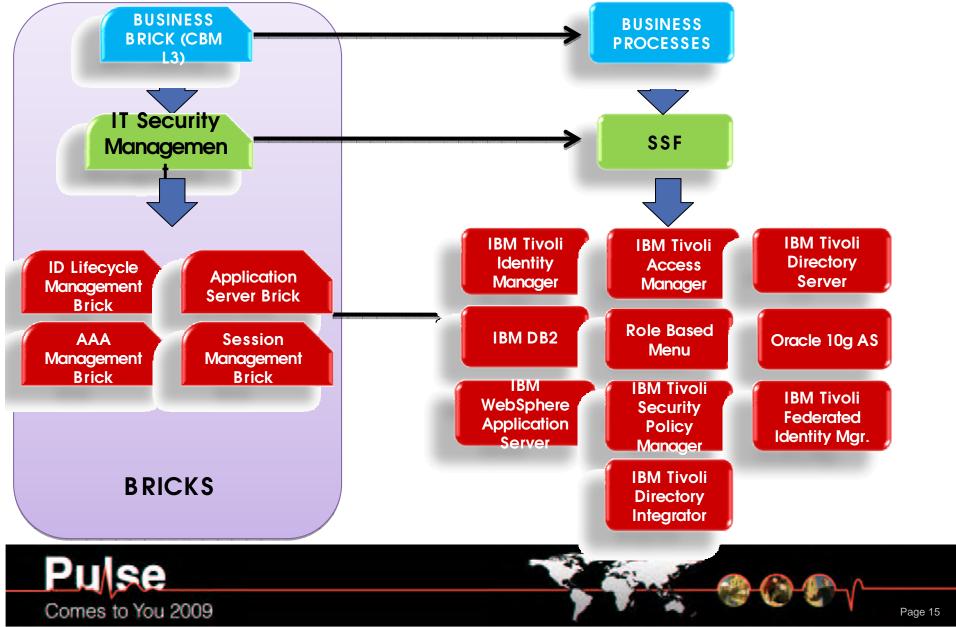
- Automated user-id/password creation
- User notifications by Email/SMS
- Automated provisioning & approvals



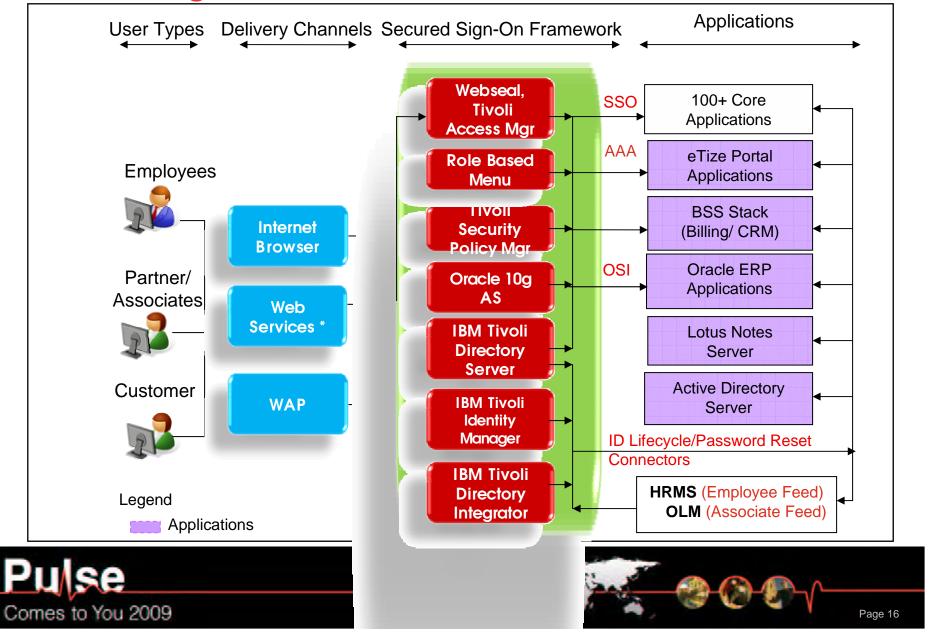




IT Security Management



Secured Sign On Framework – Architecture

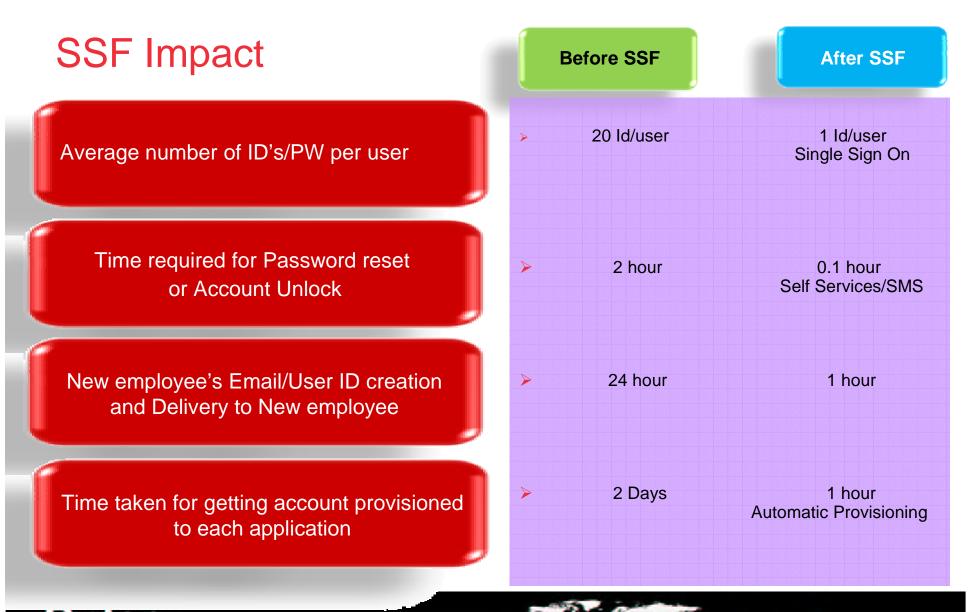




Business Benefits

- Enhanced productivity of employees and associates due to
 - SSO convenience
 - Self services/ SMS password reset/ Account unlock
 - Automated provisioning
- Enhanced on boarding experience for new joins
- Operations automation
- Security compliance
- Enhanced Reporting and Audit logging









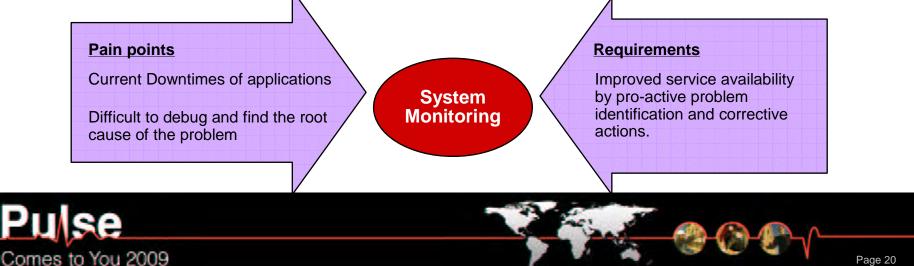


IT Service Management Framework

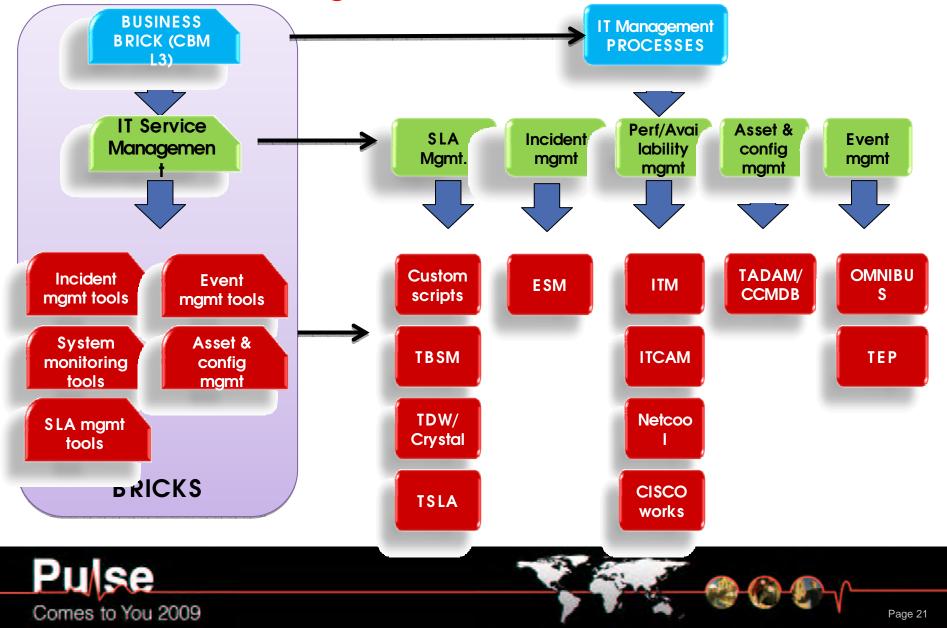


Why ITSM Framework

- Improve application availability by
 - Pro-actively identifying problems and take corrective action
 - Reducing the time to respond to systems incidents.
- Provide performance and availability details
 - For operations team
 - For Business executives
- Automated SLA measurement

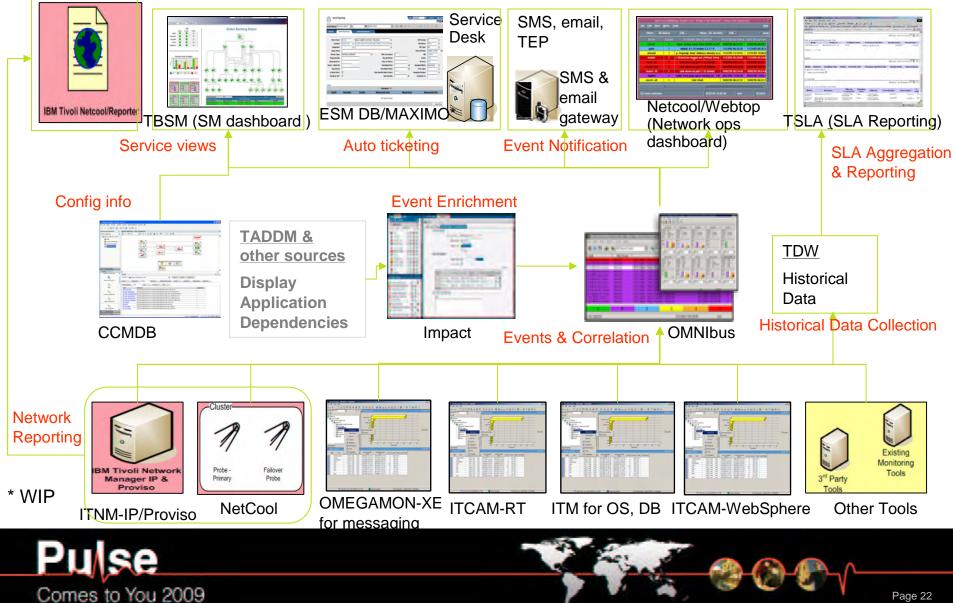


IT Service Management





ITSM for SSF*



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Business Benefits

- Higher availability
- Automated logging
- Proactive fixes
- Shorter time to repair
- Instant Notifications
- Enriched Communication
- Enhanced CSR experience
- Effective SLAs monitoring
- Customised Dashboards







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Session Summary





We have covered ...

- Large Dynamic Organization
- Complex IT Environment
- Architectural Challenges
- Infrastructure Frameworks
- Reliable Backbone using Tivoli Products
- Secured Sign On Framework (SSF)
- Systems Management Framework (ITSMF)
- Business Benefits







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Q & A





Thank You

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