

2nd Indo-European Dialogue on ICT Standards & Emerging Technologies 4th November 2015 - Shangri-La's - Eros Hotel, New Delhi, INDIA





New Developments – Emerging Technologies Mobile Edge Computing



What if we could bring some elasticity and flexibility of cloud native architecture to edge computing?







Why for telco?

- Agile and Flexible
- Elastic and Simple
- Optimized TCO
- Realtime customer experience & insights
- Rapid introduction of new services
- New business partnerships







What methods

- Caching
- RAN sharing
- CDNs
- Video/TCP Optimization
- Network APIs
- IOT
- Http 2.0 proxy
- Tollfree services
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- Customer experience
- Effective resource sharing
- Latency
- Reducing signaling overhead
- Lower cost per Mbps
- Bundled offers
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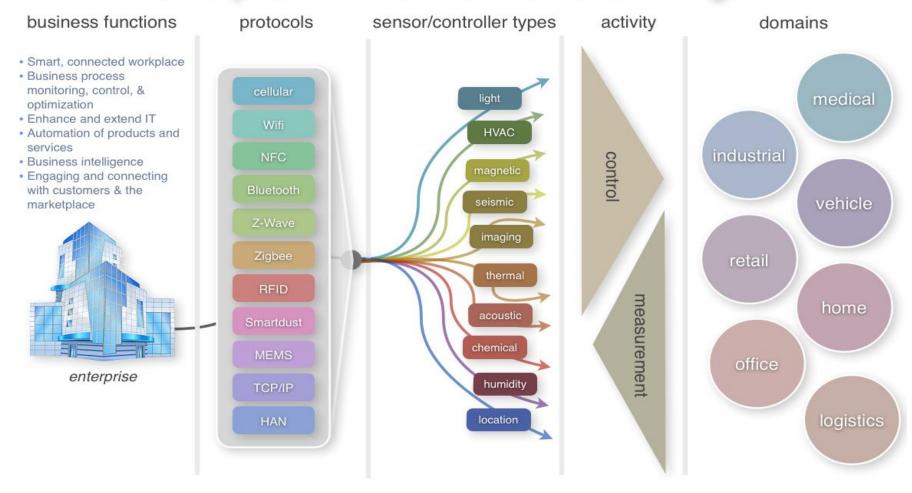






Lets see one use case

Enterprise View of the Internet of Things









What is it here

- Intelligent Systems Intelligence comes from SW & Analytics
- Need for crunching huge amount of sensor data and respond in real-time
- Needs humongous computing infrastructure in edge with dynamic load varying from application to application
- Another option is to distribute computing load to the edge devices like mobile phones!







How

Data Connectivity

Delivers content where users connect

Hardware

Maximizes speed and interactivity through close proximity to the customer

Software

Contextualizes applications with real-time data

Analytics

Analyzes data at the source before it expands







Inter-related Computing



CLOUD Computing

Non-realtime data, storage intensive

Telco grade robustness?

Middle ware?



EDGE Computing

Data response- latency

Complex middleware for highly distributed environment



FOG Computing

Filtering

Using powerful processors when in idle and use for filtering







Cloud Native Architecture

Need	Solution
Servers	Cloud Servers
Database	Various vendors, scale
File Storage	File and Object storage
Interfaces	More standard
Stack Definition	Structured

Edge Computing Architecture

Need	Solution
Servers	Hardware installed ahead of time
Database	Limited footprint, Replication, Sync
File Storage	Limited storage
Interfaces	Need for flexibility
Stack Definition	Infrastructure is hardware







How do we facilitate to start new revenue streams launch new services cases, lower cost of data pipes











