

MatreComm CraftWorld Customer Experience as a Service



Agenda



Customer Experience – An Overview



Business Impact



MatreComm CraftWorld

– Customer Experience
as a Service



Benefits and Rol







Focus on Providing Connectivity Services



In addition to Internet Connectivity

- Focus on Digital Services
- E-Commerce
- E-Health
- Advertisements
- So forth ...

Internet Service Provider

Key Network Performance Growth Factors

- Internet Experience
- Application Performance Experience
- Digital Service Experience

Digital Service Provider

- Revenue Streams beyond Internet Connectivity
- Monetize your current User-base



MatreComm CraftWorld Network as a Service (NaaS)

Internet Service Provider Transformation Platform



MatreComm CraftWorld - ISP Transformation Platform Helping ISP's Transform to Digital Service Provider



Single Console to Manage the Multi-vendor, Multi-Technology Networks

Take the burden away from Managing Complex networks

Service Management Platform – Automation across- Feasibility Analysis, Service Provisioning, Diagnostics



Lead to Cash Platform – Integrated Service

Journey – Billing/Invoice + Service Management

MatreComm CraftService Billing/Invoice Platform

integrated with

MatreComm CraftWorld – Service Management Platform



Network Virtualization – vBNG + Firewall + Router + Security Gateway + MPLS



New Revenue Enablers – Advertisement + e-Commerce





Network Infrastructure – From Capex to Opex Model

Transform to a Digital Service Provider



Multi-tenant platform – Build a tiered Organization underneath

ISP, Franchise, Reseller State, District, Block, Village



Earn beyond Internet

E-Commerce Advertisement

More ...



Network Observability Key Driver to seamless Digital Services



Network Observability vs Network Monitoring

Network Obseravability	Network Monitoring
Focus on Network Health from End-User Perspective	Narrow focus on Network Device Health
Apply wider range of information to pin-point root cause	Baseline Traffic and Monitor Traffic Devitaions
Reduce Administrator Time for Root Cause and Remediation	NetOp Staff Manually Handle Errors
User Next-Gen Streaming Telemetry and Al	Use Proven Tools and Protocols



Customer Experience - Business Impact



What Dollar value in Global sales are influenced by consumers using SmartPhones and Mobile Web access



USD 1.1 Trillion



What percentage of customers say they swicthed Brands due to poor Network/Customer experience



89%

Poor Customer Experience – Driving Factors

- Outdated Technology
- Lack of Insights into the Network and Application Performance
- Poor Planning of Technology and Implementation









Significant Fall in - Digital Services Consumed

E-Commerce Sales Cart abondend

Low same store sales

OTT consumption erratic

Similarly other Digital Services



Customers abandon the Internet Service Provider



MatreComm CraftWorld ISP Transformation + Observability Platform

- Network Observability and Root Cause Analysis across
 - WiFi Networks
 - Optical Networks
 - Switches
 - MPLS
 - Application performance aspects across Network

Network Observability - WiFi



QoE

MoS - Voice
MoS - Video
Latency
Jitter
Bandwidth

Root Cause Analysis

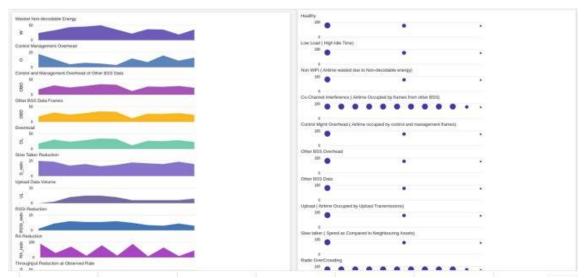
Collision aware rate adaption

Overcrowding of the radios near the ONT/WiFi AP

Significant use of the Control Management frames

Band-Steering drops

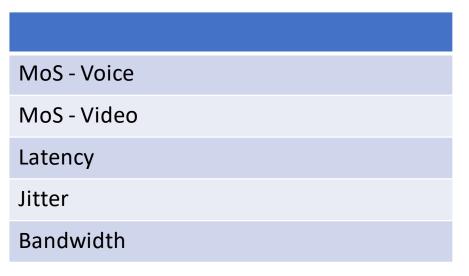
Non-WiFi interference on the ONT/access point RF



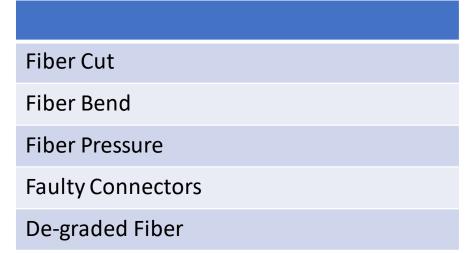
Network Observability - Optical

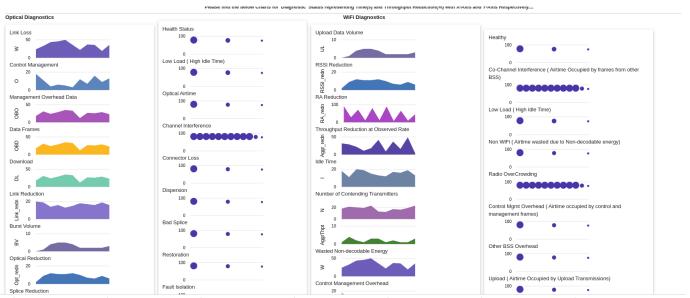


QoE



Root Cause Analysis





Network Observability - Applications

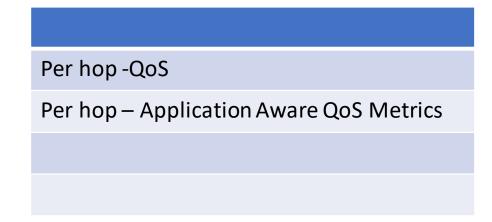


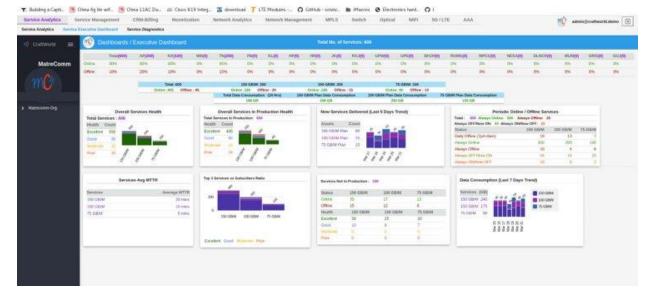
• QoE

Application Access Speed
Application Start time/Response time
Application Experience
Application Hop-Hop Metrics

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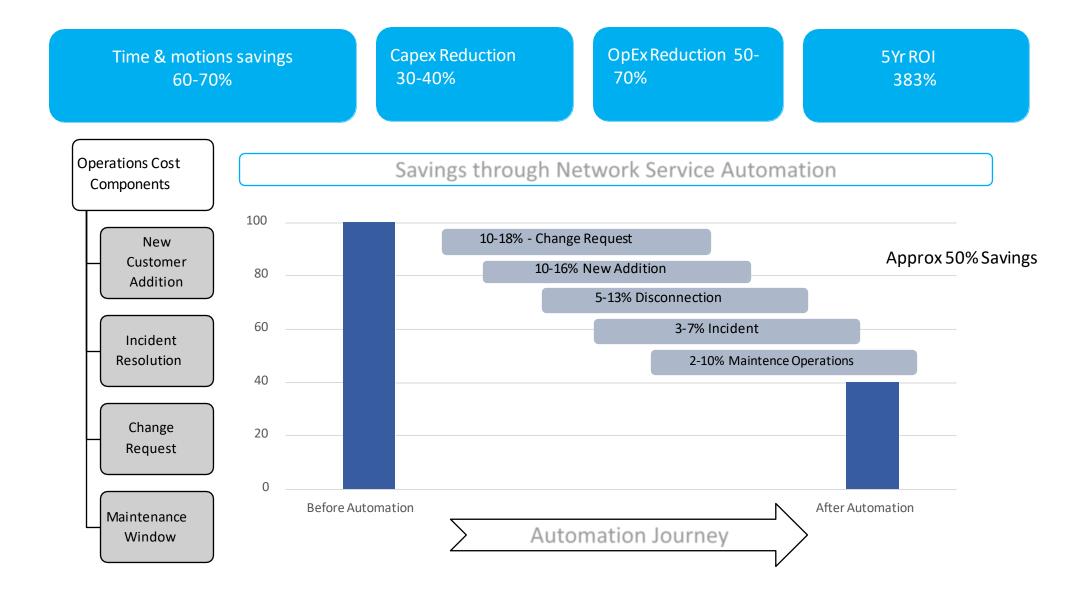
Root Cause Analysis





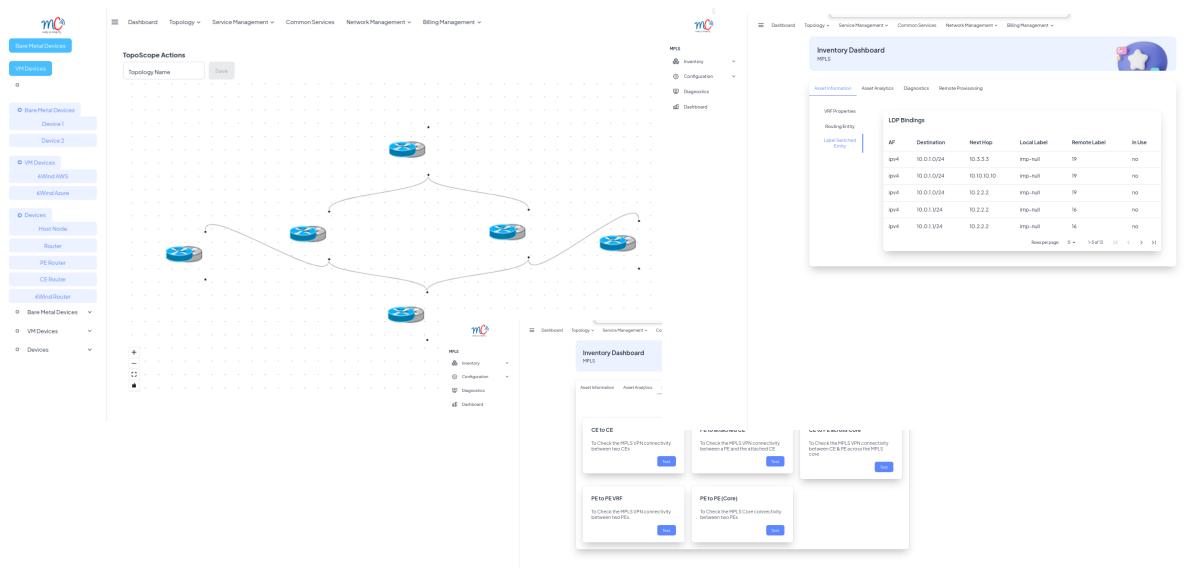
Results/Outcomes with one of our Customer





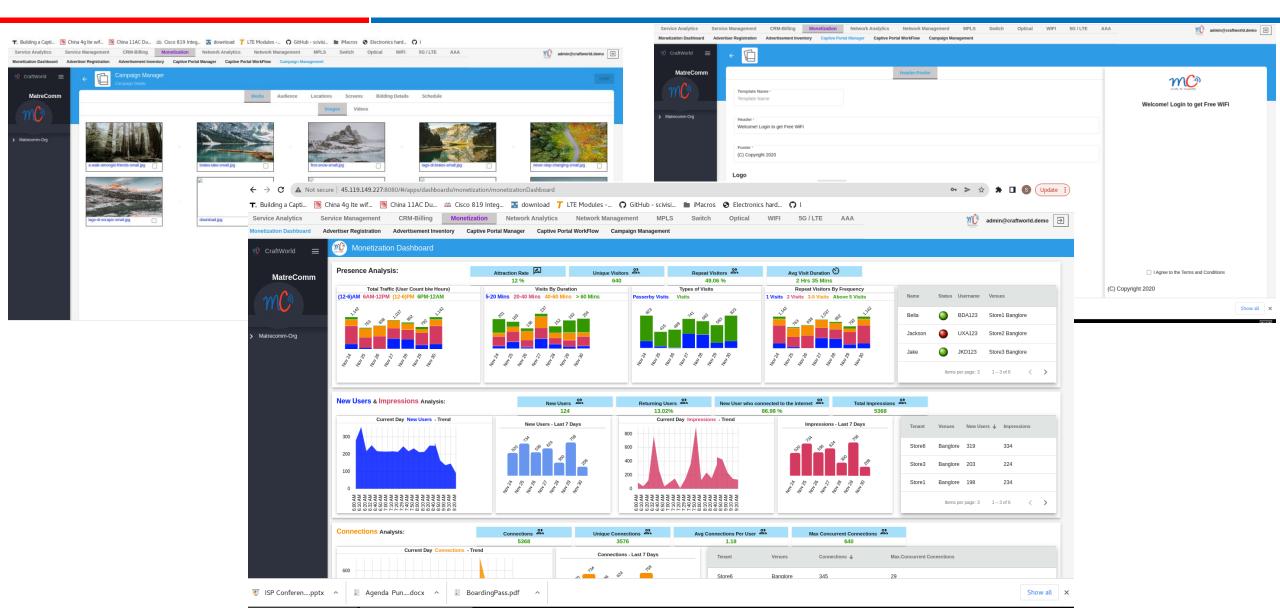
Network Virtualization





Monetization



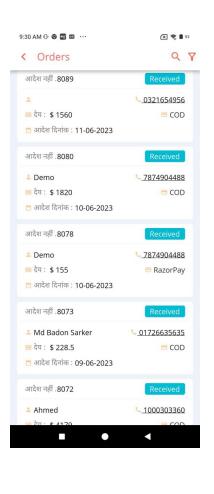


E-Commerce



- E-Commerce enable
- Local Shops
- Buyers
- Sellers





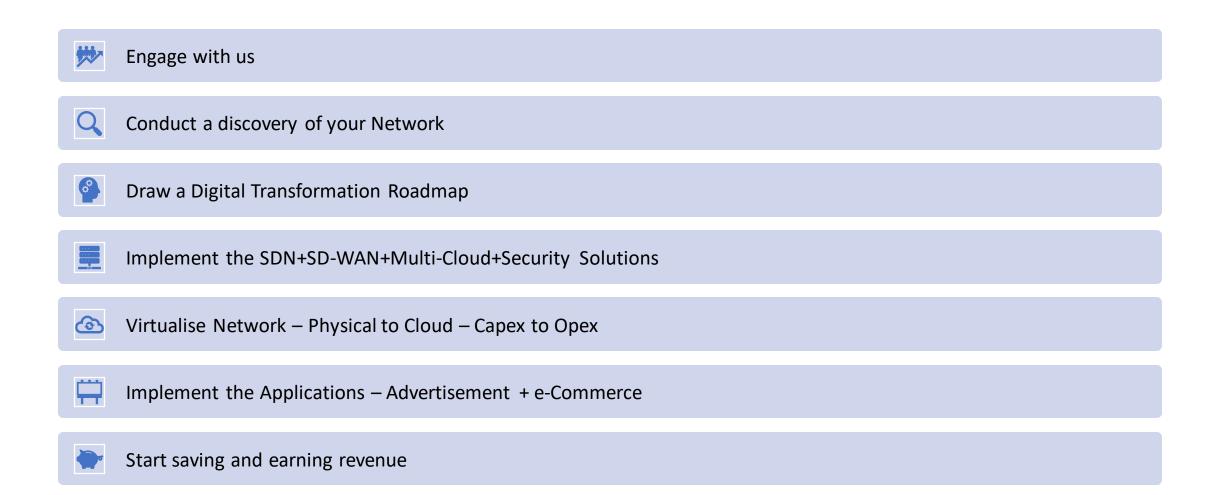
MatreComm CraftWorld



- Automate your Network Service Management
 - Reduce Capex and Opex by 30-40%
- Virtualize your Network Elements Routers, Firewall, Switches
 - Reduce your Capex by 30-40%
- Enable Monetization of User Base Earn Everyday
 - Advertisement
 - E-Commerce



Get Started to be a Digital Service Provider

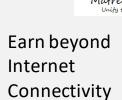




Summary



Transform with
MatreComm
CraftWorld to be Digital
Service Provider





Transform from Capex to Opex Network Infrastructure

Save the Cash and use it expand your Business



Monetise your User Database

Un-tapped Potential





Thank You