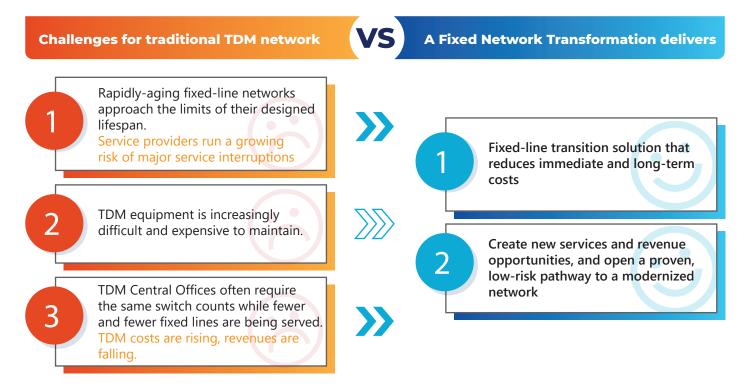


# **Class 5 Fixed Network Transformation**

**Reliable partner to evolve your Telecom Solutions** 

# WHY WE NEED?

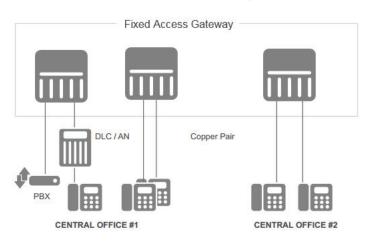


## WE ARE HERE TO SOLVE YOUR PROBLEMS - OUR SERVICES

### **Solution Features**

- Replace multiple TDM switch cores with a centralized service delivery node
- Avoid a complete replacement and leverage their installed TDM infrastructure
- Full system integration and deployment, with gateway products to interconnect existing line access equipment
- ✓ Include API integration and adaptation services, OSS/ BSS integration
- Enables transformed networks across
  virtualized or cloud environments

### Centralized and Consolidated IMS/Pre-IMS Core



# **BENEFITS OF NETWORK TRANSITION**



# **TMA COMPETENCIES**

#### **Overall Telecom Competencies**

- 23 Years of Experiences in NGN Solutions
- Best in Telecom Software Services in Vietnam
- Trusted by World-Class Telecom Service Providers
- From Specs/Regs analysis, Design, Implementation, Testing to Deployment, Maintenance and Support
- Flexible High experienced in both Waterfall & Agile
- Experienced Resource Pool, Easy to Scale

### **Class 5 Fixed Network Transformation Solutions Competencies**

- Solid knowledge (10+ Years) about Industry standard protocols (H248, NCS, MGCP, GCP, GR303, V5.2, TR08, SIP, RTP, SNMP, etc.)
- Core Technologies Enabled: Cloud, NFV, IaC, vCD
- Standardized in-house Framework and Model for Automation, CI/CD

# **Technologies**

#### **Domains**

PSTN, ISDN, IMS, AS, IP PBX, traditional PBX, Billing, Networking.

#### **Key Functions**

### Diverse Hardware Support:

Specific line/trunk gateways, Virtualization on Red Hat Linux-compliant, High Availability, Rack Mount Server

- Management: SNMP, XML, SOAP/HTTP, REST API
- Broadband Supported: Cable Multimedia, FTTx, xDSL, PRI/T1/E1

#### New Technologies

Virtualization, Cloud, NFV

#### **Protocols Stack**

#### • TDM-based:

ABI, GR303, TR08, V5.2, SS7, PRI, CAS.

• IP-based:

Megaco H248, NCS, MGCP, GCP, SIP, H323, RTP/SRTP

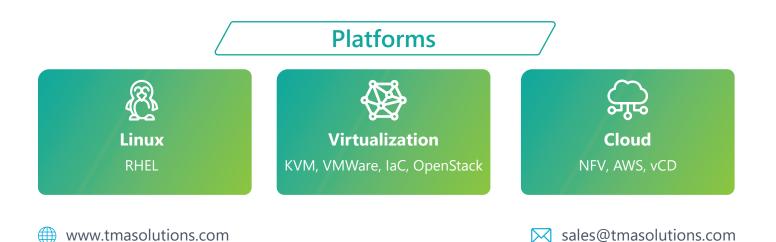
• Others:

G711, G729, DTMF, SCTP, TCP, TLS, IPv4, IPv6, IPSec

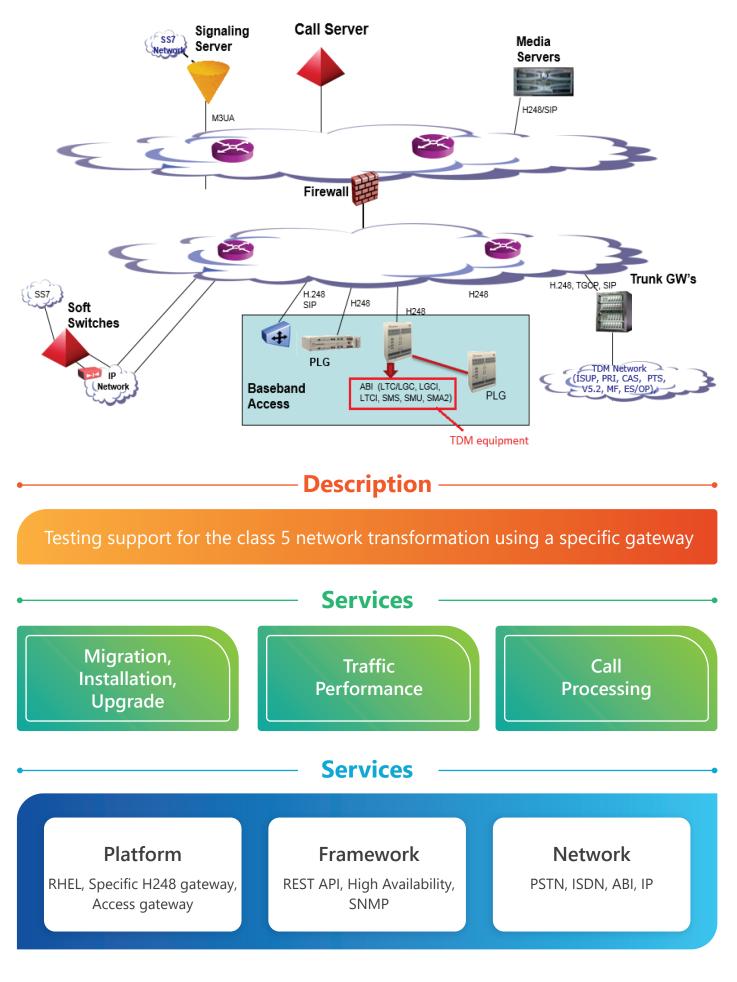
### Frameworks and Solutions

In-house Automation Framework Buby C/C++, Python, Java, perl High Availability Solutions Cloud/NFV Enabled Buby C/C++, Python, Java, perl High Availability Solutions

	Tools
Testing tools	HP QC, Atlassian Suite (JIRA, Confluence, Crucible, BitBucket), Wireshark, TCPdump, SSH/Putty, SIPp, LDAP.
Security tools	Nessus, CIS, Codenomicon (Linux penetration testing tools)



# **CASE STUDY – Class 5 Network Transformation**



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