# AT&IP Flexible Reach

Your foundation for transformational services



# AT&T IP Flexible Reach overview



SIP trunking service that delivers integrated access to IP PBX, TDM PBX or key system environments



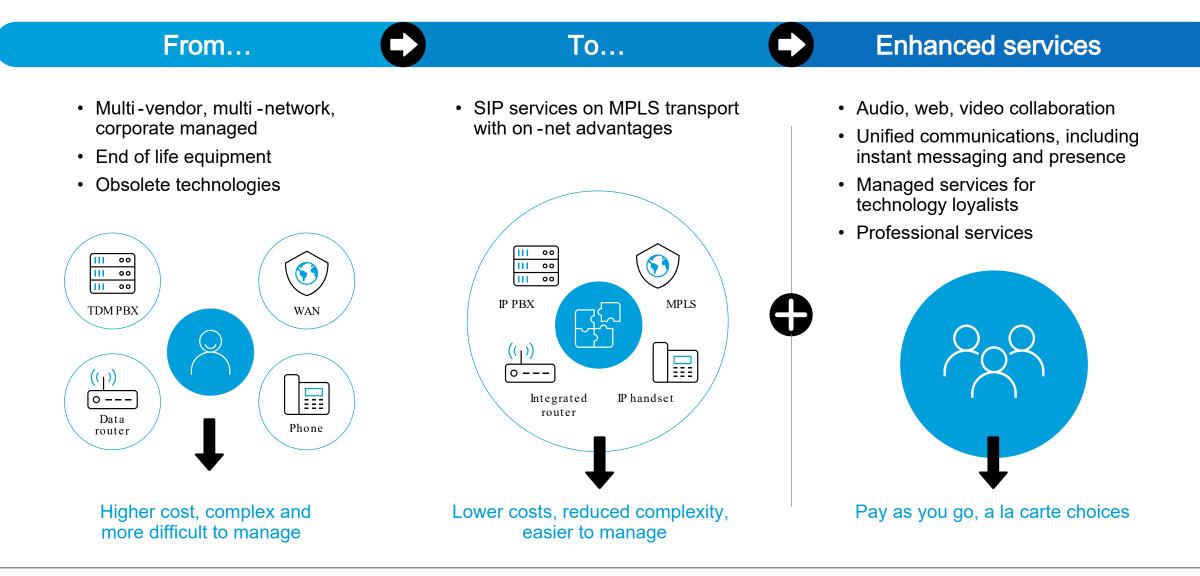
Possible cost benefits through consolidation of voice and data – one provider, single transport, integrated management



Foundational service for operational transformation and intelligent service integration



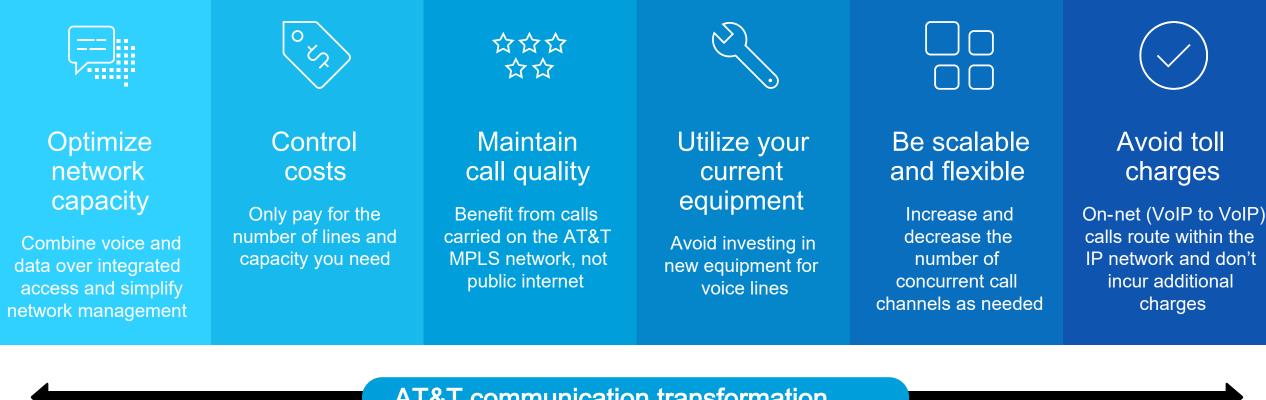
# SIP trunking for communications transformation





# AT&T IP Flexible Reach benefits

Integrate voice and data into one integrated access circuit



**AT&T** communication transformation



# Inside AT&T IP Flexible Reach

### Management

A web-based customer portal is available for feature self-management and reporting

- Max DID policing
- Anonymous call rejection
- Account codes
- Authorization codes
- Sequential ringing
- Simultaneous ringing

### Authorization/restriction

- Operator assistance/ directory assistance
- Domestic
- International
- Toll-free

### Appearance

• Configurable calling line ID

## Call forwarding

- Call forwarding not reachable
- Call forwarding selective
- Call forwarding always
- Call forwarding busy
- Call forwarding no answer

## Calltransfer

- Call transfer blind (SIP REFER)
- Call transfer consult (SIP REFER)

### Flexible calling plans

• Supports unlimited local and on-net calling with option for bundle of free, off-net, long-distance minutes

## Resiliency/Redundancy

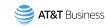
- Border Gateway Protocol - Reroute (BGP-R)
- Trunk Call Routing (TCR)
- Route Exhaust

## Virtual telephone numbers (VTNs)

• Establish local visibility by assigning a telephone number to a phone not physically located within your location's local calling area.

## Branch office extensions

• Share trunks across multiple locations



# AT&T IP Flexible Reach service quality and assurance





Class of Service (CoS), prioritizes the voice packets over other types for immediate transport All calls across network monitored for service quality



Failover and resiliency, with trunk to trunk failover and call preservation target less than 5 seconds



Managed transition with design, implementation, and lifecycle management that helps assure migration is smooth



Advanced bandwidth management and traffic queuing priorities help optimize for applications and traffic types running simultaneously



# SIP – economics and possibilities

## Reduced...

Lines/connections Call charges Maintenance agreements CAPEX-funded CPE Support/training Service providers & vendors SLAs/monitoring Spend management



Greater...

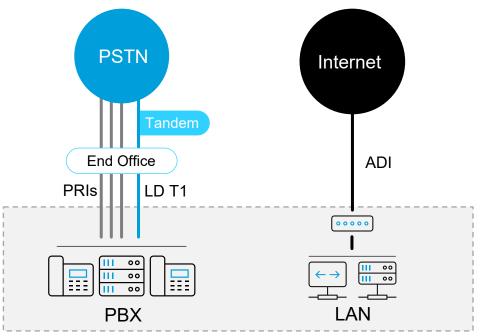
Cost efficiencies Optimization of network resources Focus on strategic value tasks Use of OPEX Integration Service integration Automation Transparency and control



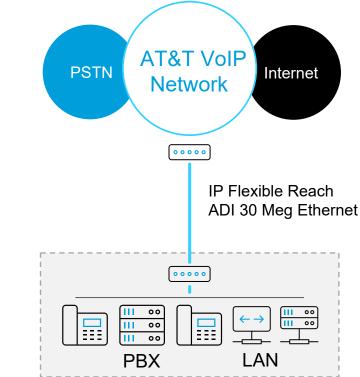
# Transforming voice use case

# Local PRIs, Dedicated LD T1 and ADI to AT&T IP Flexible Reach

- Three Local PRIs with 69 voice channels
- One LD T1 Dedicated Intra/Interstate circuit
- One ADI 20 Meg Internet circuit
- Five Total Circuits



- 70 Voice Calls occur simultaneous with Internet Traffic
- One IP Flexible Reach Voice and Data IP Integrated access circuit



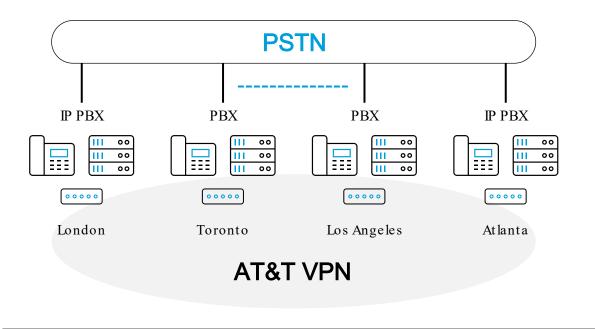


# Enterprise voice transformation use case

## TDM to AT&T VoIP, AT&T IP Flexible Reach and AT&T VPN

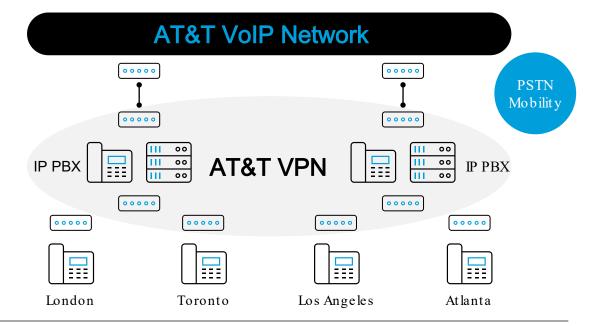
### TDM based Voice w/Distributed Architecture

- Costly, multiple PRIs at each location for PSTN calling
- Costly, PBX management at each location for PSTN calling



### IP based Voice w/Centralized Architecture

- PRI savings consolidated access to PSTN with Centralized SIP trunks
- CPE savings with Centralized IPPBX management for all call types





# TDM to SIP transformation for a major airline



## Problem

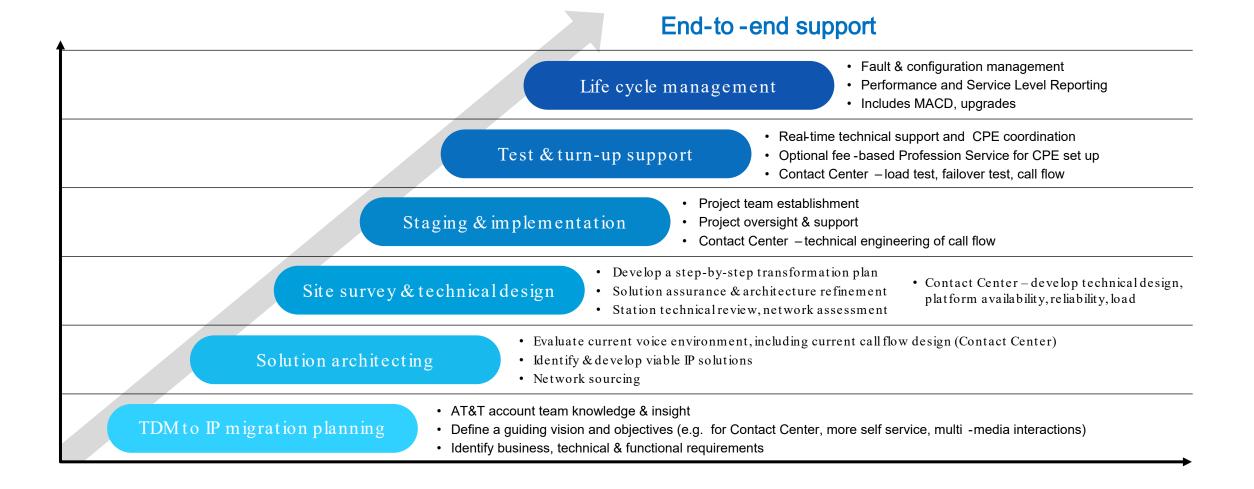
- Manager contact center: 6 sites; 22,000 concurrent call peak volume
- Customer call center hardware was end of life
- Disparate workforce; customer seeking a more ubiquitous approach for all agents

# Solution

- AT&T managed, integrated solution delivering a near seamless experience via a SPOC for service assurance
- Contact center solution, IP toll-free, managed ethernet access, GigE bandwidth and IP Infopack for call data delivery
- Special multi-layer failover design and configurations
- Total transformation of reservations call center to E2E IP platform



# AT&T IP Flexible Reach – the foundation for voice transformation



# In summary



## Operational savings and greater ROI

across calling, connectivity, customer premises equipment, resource management and maintenance.



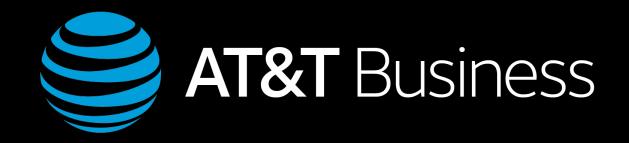
Industry-leading network quality, assurance and service migration

to help customer benefit from shifting to the next generation in communications technologies.

Become future-ready with an IP foundation

providing rapid access to cloud, voice and collaboration services.





# AT&T Global SIP Trunking

## **Global local service**

### North America

USA Canada Mexico

#### Europe

Austria Belgium Czech Republic Denmark Finland\* France Germany Ireland Italy Luxembourg\*

Netherlands Norway\* Portugal Romania Slovakia\* Spain Sweden Switzerland United Kingdom Asia Hong Kong Singapore Japan Malaysia\*

## Australia

Australia New Zealand

## **Global SIP Trunking**

Local service in 23 countries today and 5 planned including number portability and emergency service support

# AT&T Global SIP Trunking

## Long distance offer global

## North America

USA Canada

#### Latin America

Argentina Brazil Chile Colombia Ecuador Mexico Panama Peru Venezuela

### **Europe and Africa**

Austria Belgium Bulgaria Czech Republic Cyprus Denmark Estonia Finland France Germany Greece Hungary Ireland Italy Latvia

### Lithuania Luxembourg Netherlands Norway Poland Portugal Romania Slovakia Slovakia Slovenia Spain Sweden Switzerland United Kingdom South Africa

### Australia India Japan Malaysia S. Korea Hong Kong New Zealand Philippines Singapore Taiwan On-net only: China Thailand Indonesia Vietnam

Asia Pacific

# IP Flexible Reach

Calls originating from 54 countries with Global Termination

# AT&T Global SIP Trunking

## Canada and United States BOEs

### **Customer Hubs**

- Local service replacement
- Remote sites become Branch Office Extensions to IP PBX Site
- Connect remote sites through AVPN or other WAN
- SIP Inbound and Outbound voice traffic aggregation
- Off-net access to PSTN through cross border Hub Site
  - In-country PSTN
  - Rest of World PSTN
  - Mobility Networks

# Hub and BOE in any combination of United States, Canada and Europe

### **Centralized Voice Gateway Hubs**

