From Years to Seconds: Carriers Interconnect Faster Through Carrier Digital Platform Enablement

TelecomsXChange

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EXECUTIVE SUMMARY

A lot of industries have gone digital, but many carriers are still maintaining the status quo. Carriers still conduct business mostly manually, and that is inefficient in the digital age. Fortunately, there is an opportunity for carriers to become digitized and subsequently increase the speed at which they transact. In turn, there is potential to increase revenues for both carriers and service providers.
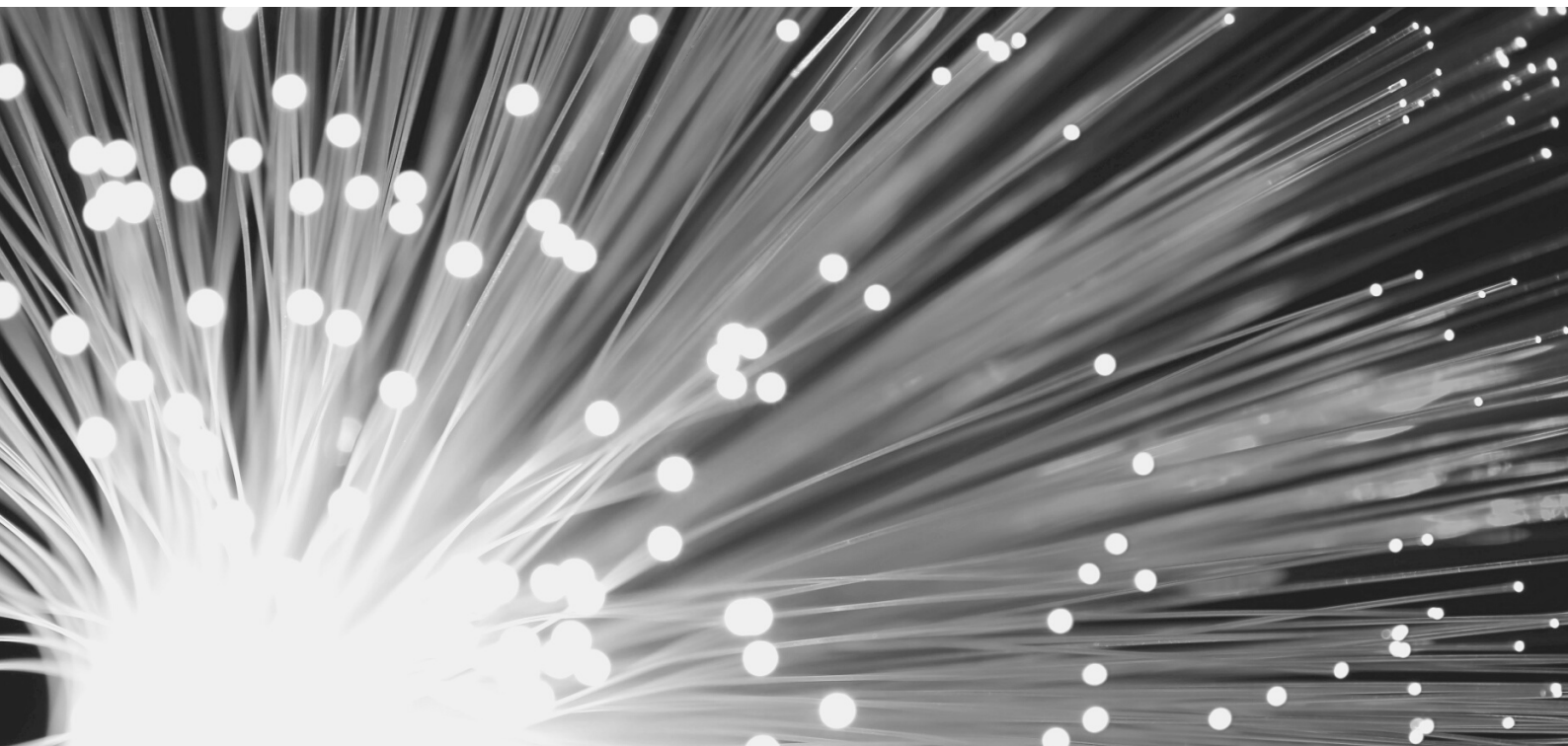
CARRIER DIGITAL PLATFORM ENABLEMENT

Almost every industry has been digitized from the stock market to hospitality to transportation. Yet, many Voice, SMS, and DID carriers still traditionally run things. Carriers continue to handle buying, selling, and payments mostly manually, which eats away at precious time.

A Carrier Digital Platform helps carriers automatically handle contracts and transactions, simplifying many complicated processes currently in use. The robust automation and digitalization infrastructure provide more room for innovation and growth by reducing the time carriers spend on repetitive tasks.

CARRIER DIGITAL PLATFORM ADOPTION

Examples of carriers that have invested in Carrier Digital Platform transformation:

Airtel (Press Release)
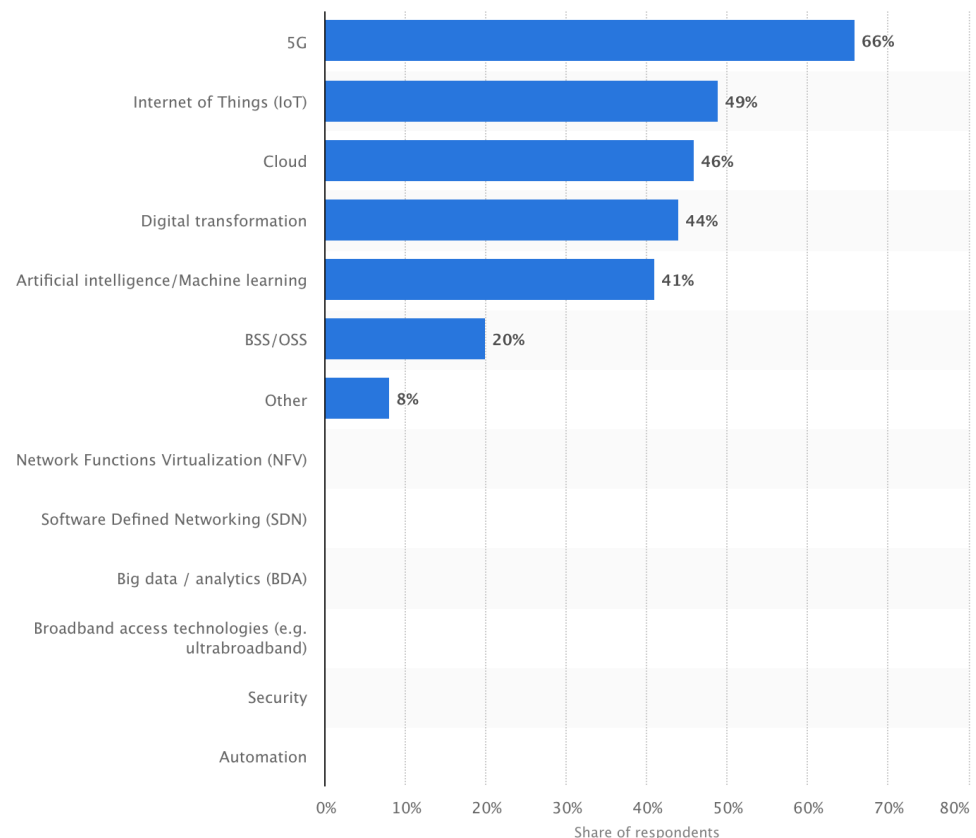BICS
Deutsche Telekom
Bankai Group - BridgeVoice
IDT Corp

Digital transformation streamlines processes, which enables carriers to operate more efficiently, and greater efficiency can lead to more revenues.

THE DIGITAL TRANSFORMATION OF COMMUNICATION PROVIDERS IS ON THE RISE

Digital transformation is on the priority list for many telecom organizations. A survey by Telecoms Intelligence revealed that 44 percent of telco companies plan to invest in digital transformation this year.

| Category	Share
5G	66%
Internet of Things (IoT)	49%
Cloud	46%
Digital transformation	44%
Artificial intelligence/Machine learning	41%
BSS/OSS	20%
Other	8%
Network Functions Virtualization (NFV)	
Software Defined Networking (SDN)	
Big data / analytics (BDA)	
Broadband access technologies (e.g. ultrabroadband)	
Security	
Automation	

Share of respondents

Carriers should become digitized to remain competitive. Carriers need to offer their customers the tools and services they need to grow their businesses or risk losing them to the competition.

With TelecomsXChange (TCXC) Platform as a Service, Carriers can complete digital transformation with ease. TCXC Carrier Digital PaaS enables global carriers to automate and digitize their VoIP, SMS, and Virtual number wholesale business from customer signup to vendor payout.

1. source: Informa Telecoms & Media, Statista 2020 Worldwide; Informa Telecoms & Media; 2019; 540 respondents; Telecom industry professionals https://www.statista.com/statistics/954426/global-telecom-industry-priority-investment-areas/
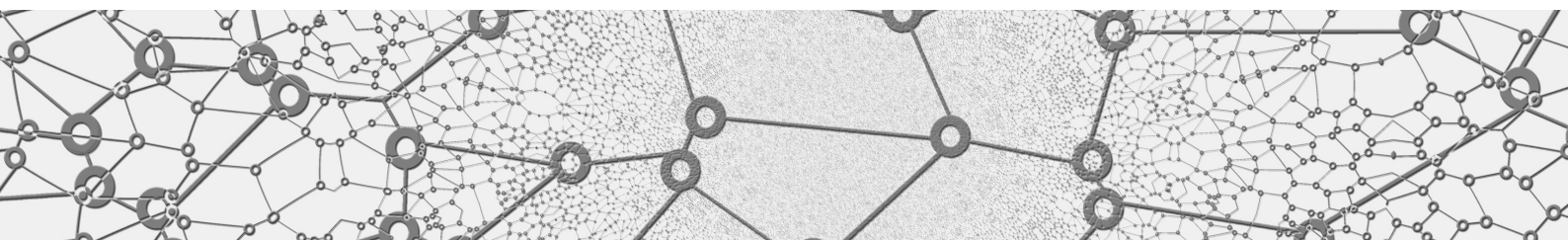
TELECOMSXCHANGE (TCXC) BACKSTORY TO CARRIER DIGITAL PLATFORM ENABLEMENT

TCXC embarked on a mission in 2008 to build a modern digital exchange platform for wholesale carriers. They examined the failures of previous exchanges, monitored and studied every case carefully to learn what was missing. Then took what they learned and created and modern and open digital exchange platform for carriers to use in the cloud.

TCXC developed the SMPP proxy, billing, routing, rating, API and logic for the exchange purpose in specific using open standards – the team knew this was the hard way to do it. Still, they were sure that using commercial propriety SMSC, Softswitches would not do the job.

For over a decade, TCXC has handled billion plus in transactions with ZERO disputes. It's trusted by over 800+ service providers, consultants, developers, call centers, and carriers.

The platform reliably automates over 98% of repetitive but essential tasks like buying, selling, rate sheet processing, rate notifications, payment collections, payouts, and much more.

The benefits for service providers of joining the Digital Exchange to buy and sell voice, SMS, Phone numbers is great and now the stack is avalable for re-branding and re-use by other operators in a PaaS model.

HOW TCXC CONNECTS BUYERS

Buyers sign up for a 'buyer account' on TCXC and authorize their equipment IP address on TCXC and recharge the balance. At that point, the buyer chooses which carrier they want to connect with and purchase service with a simple button click. After that, TCXC sends an email with tech instructions; concerning how to send the phone calls, messages to be routed to the specific carrier.

TCXC's back-end uses SIP, SMPP signaling interfaces for inbound and outbound traffic to track billing, these protocols are compatible with majority of buyers and sellers existing networks to connect to the platform over IP. The Stack is also CPaaS Certified to work with Restcomm Cloud and may be used for CPaaS Prepaid billing, Routing and more..

WHAT TCXC CARRIER DIGITAL PAAS DOES

TCXC PaaS helps telecom carriers unify voice, SMS, Phone numbers under one digital platform and auto API enables them for partners and customers to purchase and consume programmatically..

TCXC stack can transform the following:

- Customer & vendor onboarding
- Interconnection (SIP/SMPP)
- Buying & Selling routes
- Unified Prepaid-PostPaid wallet for SMPP and SIP
- Routing Management (SMS, Voice)
- Route(s) Testing
- Billing/reporting transformation
- Rates processing, distribution, and notifications
- API Enablement for DIDs, Voice, SMS and Rates
- Customer Top-ups and Seller payouts
- Marketing and up-selling
- Fraud monitoring & alerting
- Trouble Ticket Escalations to NOC
- Community building
- Integration with third-party cloud services (Zapier, Slack, Restcomm CPaaS, etc..)

Development transformation

Use the following Application Programming Interfaces (APIs) to build new tools and integrations.

- Market View API (Rates, Stats, Reviews, Dial codes..)
- Top Destinations API
- SDR - CDR API
- Test Numbers API
- Number Score API
- Member Messaging API
- Interconnect API
- DIDs API
- Visit API documentation for more

TCXC API can open up new possibilities to developers and carriers, leveraging Ai and machine learning to integrate with telecom big data, or simply connect to a popular cloud application like Zoom, Microsoft Teams.

TelecomsXChange

Digital Tranformation Partner

A call to TCXC to learn more about Carrier Digital Platform Enablement, TCXC can provide the information needed to move forward. or you may join TCXC public exchange to see it in action.

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