



Corda for Telecommunications •

The global communications industry is facing unprecedented challenges and transformation. Communication Service Providers (CSPs), ICT Service Providers (ICT-SPs) and Communication Software Vendors are using the Corda platform to automate business processes and deliver new services that will help to capitalize on the opportunities arising from growing data consumption trends, IoT, Industry 4.0, and 5G.

Applications developed on the Corda platform support the federated network model of wholesale carriers. Distributed ledger solutions built on the platform help to overcome the challenges of fragmented business processes and siloed information by automating the ordering, provisioning, reconciliation and settlement processes between ICT-SPs and customers. This means new efficiencies and revenue opportunities across wholesale voice settlement, fraud prevention, data-on-demand and data roaming services.

R3 supports a growing **communications ecosystem** of leading organizations committed to building on and using the **Corda platform**. R3 is working closely with these companies to support their efforts in delivering transformational automation for intercarrier business processes and to eliminate inefficiencies in transactions across these networks.

“Blockchain thinking acts as an enabler in support of a broader technology roadmap, where assets can become the foundation of a more inclusive transformational platform for CSPs.

Gartner, CSPs Need to Think Differently to Exploit the Disruptive Potential of Blockchain

The only blockchain for business

Corda was designed to enable the delivery of applications that bring disparate organizations into sync, in real-time, over shared facts. It enables the seamless, immutable and secure transfer of assets and value between counterparties, while maintaining the highest levels of privacy and security. Corda Enterprise, the commercial distribution of Corda open source, harnesses the unique features of Corda and provides enterprise support, security features, fine-tuned performance and high resilience for production environments.

Corda was designed with privacy, scalability and strong governance at its core—making it the perfect fit for businesses operating in complex and highly-regulated global markets. Corda’s consensus mechanism ensures transaction finality—one reason why it is the only platform deemed acceptable by leading security standards agencies such as the National Institute of Standards and Technology (NIST)¹.

Why Corda for telco tech firms?



Scalability

Corda is designed for enterprise scalability and has been proven to meet the transaction processing demands and needs of many industries.



Privacy with provenance

Corda drives industry level process optimization by enabling CSPs and ICT Service Providers to connect and transact seamlessly, securely and in strict privacy. Data and history is only shared on a need to know basis.



Interoperability

Corda applications are interoperable, allowing applications to benefit from the innovation of other applications. Interchain interoperability and integration with existing infrastructure, such as payment and settlement rails are supported by Corda flows, and dedicated development toolkits.



Finality of Transactions

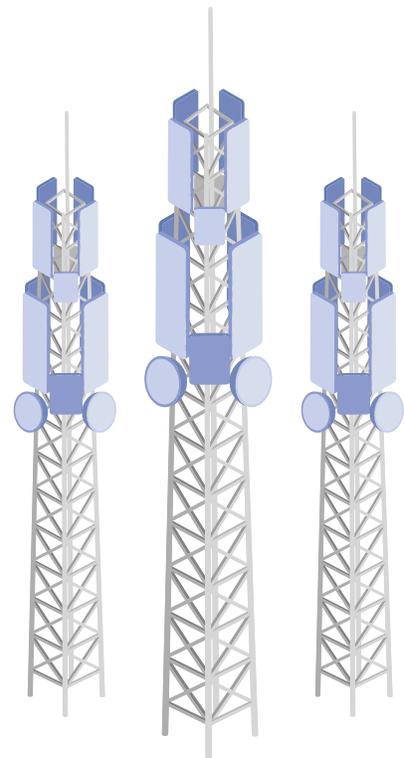
Corda's ledger provides deterministic finality. Once transactions are committed to the ledger they are final. This is essential for the low risk, and highly secure settlement of high volume and value transactions between carriers.

Enterprise blockchain for intercarrier settlement

Corda can be used by CSPs, ICT-SPs and vendors to develop applications for many intercarrier automation and settlement use cases.

On Corda, carriers and vendors can:

- Use applications that reconcile rates and billing information in real-time reducing disputes between parties
- Ensure privacy of bilateral transactions between parties whilst also allowing transactions to execute seamlessly between organisations
- Automate business processes, transactions and agreements between carriers
- Massively reduce the cost of processing transactions



Wholesale interconnect use cases on Corda

Wholesale Voice Settlement

Global wholesale carriers reconcile and settle 400 billion minutes of call data records every year. Application builders can use Corda to build applications to automate the reconciliation and settlement of these records, harnessing Corda's privacy, resilience and scalability.

Fraud Prevention

It is estimated that 2% of global carrier revenues are lost to call fraud each year. Corda applications can bring transparency and enable information to be shared on a 'need to know basis' amongst participants to improve fraud detection and prevention.

Data Roaming

Data roaming is cumbersome and error prone. The explosion in IoT devices coming online is causing exponential complexity and Corda is being used to develop new efficient and scalable data roaming solutions.

Data on Demand

Carriers are using Corda to automate the provisioning and settlement of data services between network-to-network, network-to-cloud and cloud-to-cloud. Corda is able to configure the privacy requirements whilst ensuring a scalable and secure settlement layer.

Network Deployment

To provide the market with the mutualized benefits of large scale blockchain adoption, R3 is working closely with carriers and consortia to help them become business network operators and provide managed services to their ecosystems and enterprise customers.

Network and Platform Interoperability

Corda is unique amongst blockchain platforms in that it supports native application interoperability and the ability to support interoperability across other systems. Corda inherently provides support for all of the interoperability requirements demanded by enterprise users.



Contact

Discover why Corda is the only software platform that delivers on the promise of blockchain for business. Visit r3.com/contact.

About R3

R3 is an enterprise blockchain software firm working with a global ecosystem of more than 300 participants across multiple industries from both the private and public sectors to develop on Corda, its open-source blockchain platform, and Corda Enterprise, a commercial version of Corda for enterprise usage.

R3's global team of over 300 professionals in 13 countries is supported by over 2,000 technology, financial, and legal experts drawn from its vibrant ecosystem.

The Corda platform is already being used in industries from financial services to healthcare, shipping, insurance and more. It records, manages and executes institutions' financial agreements in perfect synchrony with their peers, creating a world of frictionless commerce.

Learn more at www.r3.com and www.corda.net.



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New York

11 West 42nd Street,
8th Floor
New York, NY 10036

London

2 London Wall Place,
London, EC2Y 5AU

Singapore

18 Robinson Road,
Level 14-02
Singapore, 048547

São Paulo

Av. Angélica, 2529 – Bela Vista
6th Floor
São Paulo – SP, 01227-200, Brazil