



ARCHITECTING

DIGITAL REINVENTION

FOR A DATA-DRIVEN

FUTURE





In this customer-centric digital era, CSPs need a scalable, flexible, and highly-automated revenue and billing management platform to monetise subscription and roll-out usage-based digital services. Technology innovation and deep customer connect are at the core of everything we do.

Disruptive solution powered by DAWN



- › Achieve much-needed agility and scalability to gain competitive-edge over the new age digital service providers.
- › DAWN is DevOps-based, Analytical Intelligence-driven, Web-scale-enabled & Network Software solution.
- › DAWN powers STL's Next-gen dBSS/dOSS portfolio that enables CSPs to make digital reinvention simpler and faster.

WHAT IT MEANS TO THE CSPS?

<div>D</div> <div>DevOps</div>	<div>3</div> <div>Speed Agile Delivery Model</div>	<div>80%</div> <div>Reduction in Time-to-market</div>	<div>70%</div> <div>Reduction in Delivery Time</div>	<div>50%</div> <div>Reduction in Troubleshooting Time</div>
<div>A</div> <div>Analytics</div>	<div>9x</div> <div>Reduction in Query Time</div>	<div>3x</div> <div>Reduction in Hardware</div>	Data Unification across STL Products with Advanced Analytics	
<div>W</div> <div>Web-scale</div>	<div>50%</div> <div>Reduction in Hardware TCO</div>	<div>0</div> <div>Downtime Upgrade & Zero Touch Deployment</div>	Auto-scale of Application	
<div>N</div> <div>Network Software</div>	<div><div><div>› Carrier & Enterprise Wi-Fi</div><div>› Digital Service Enablement</div><div>› FTTx Connectivity</div></div><div><div>› IoT Monetisation</div><div>› Next-gen 5G Roll-out</div></div></div>			

STL'S NEXT-GEN dBSS/dOSS

STL's next-gen dBSS/dOSS is a web-scale platform built using micro-services architecture bringing unparalleled agility to the CSPs striving to become Digital Services Providers (DSPs). It provides a mission-critical best-of-suite monetisation platform to CSPs looking to launch innovative offerings in the market, combining both retail and partner billing.

With a fully-modular architecture, the next-gen dBSS/dOSS enables the CSPs in addressing their immediate pain points without a long-running full transformation. The CSPs have the option to choose the components immediately relevant while taking advantage of containerised eco-system built on cloud best practices. The platform exposes RESTful One API for quick integration with the existing infrastructures and partners, creating a dual-speed architecture to best serve the customer needs.

EVERYTHING YOU NEED TO BUILD & SCALE DIGITAL BUSINESS



Cloud-enabled Flexibility & Scalability

Porting the legacy application to the cloud does not translate to independent scaling. There is a need for a system designed to leverage the scalability of the cloud. The next-gen dBSS/dOSS is architecturally aligned and designed for the cloud, ensuring maximum flexibility and scalability. Following the 'non-stop' principle, the dBSS/dOSS system is architected to design products/services from the existing services (exposed to catalogues) without stopping or reconfiguring the platform.



Maximum RoI from Operational Automation

The major focus of digital reinvention is to reduce the cost of operating the network and IT systems and processes. To achieve maximum RoI for current and complex businesses of the future, the BSS/OSS needs to be AI-enabled. The next-gen dBSS/dOSS is equipped with a unique intelligence management engine – Intellza – to ensure the design choices and architectures they put in place today can support current and future automation requirements. In addition, all the dBSS/dOSS components act and report relevant data in real-time.



Extreme Business Agility

The CSPs need to rapidly evolve to adopt innovative business models with the primary objective of minimising the time, risk and cost of new product or service launches. During new launches, the system must be capable of dynamically chaining together the OSS and BSS components required to support each new service. The next-gen dBSS/dOSS is designed to minimise the gestation period. The micro-service-based design reduces the go-to-market time to a few days. The zero-touch orchestration ensures maximum business flexibility and agility.



Vendor-agnostic Ecosystem

The new age CSPs need to integrate components developed by non-telco vendors e.g. chat-bots. They also need to create offers delivered in partnership with multiple service providers. Powered by DevOps and micro-service design, The next-gen dBSS/dOSS enables seamless integration across multiple vendor platforms. It reduces the cost and complexity of setting up sideways integration, enabling lower-risk innovation. The Open API optimises componentisation and modularity of the BSS/OSS.





MAKING DIGITAL REINVENTION SIMPLER & FASTER

Consumption patterns are driving the need for constantly evolving 'smarter' networks. With its complete portfolio of disruptive software products and services for CSPs, the next-gen dBSS/dOSS software portfolio offers fully-integrated IT platforms that enable – reduced capital expenditure, agility in new roll-outs, compatibility with a hybrid ecosystem, and ease of integration with existing and future platforms.



dEP



dBSS



dPCC

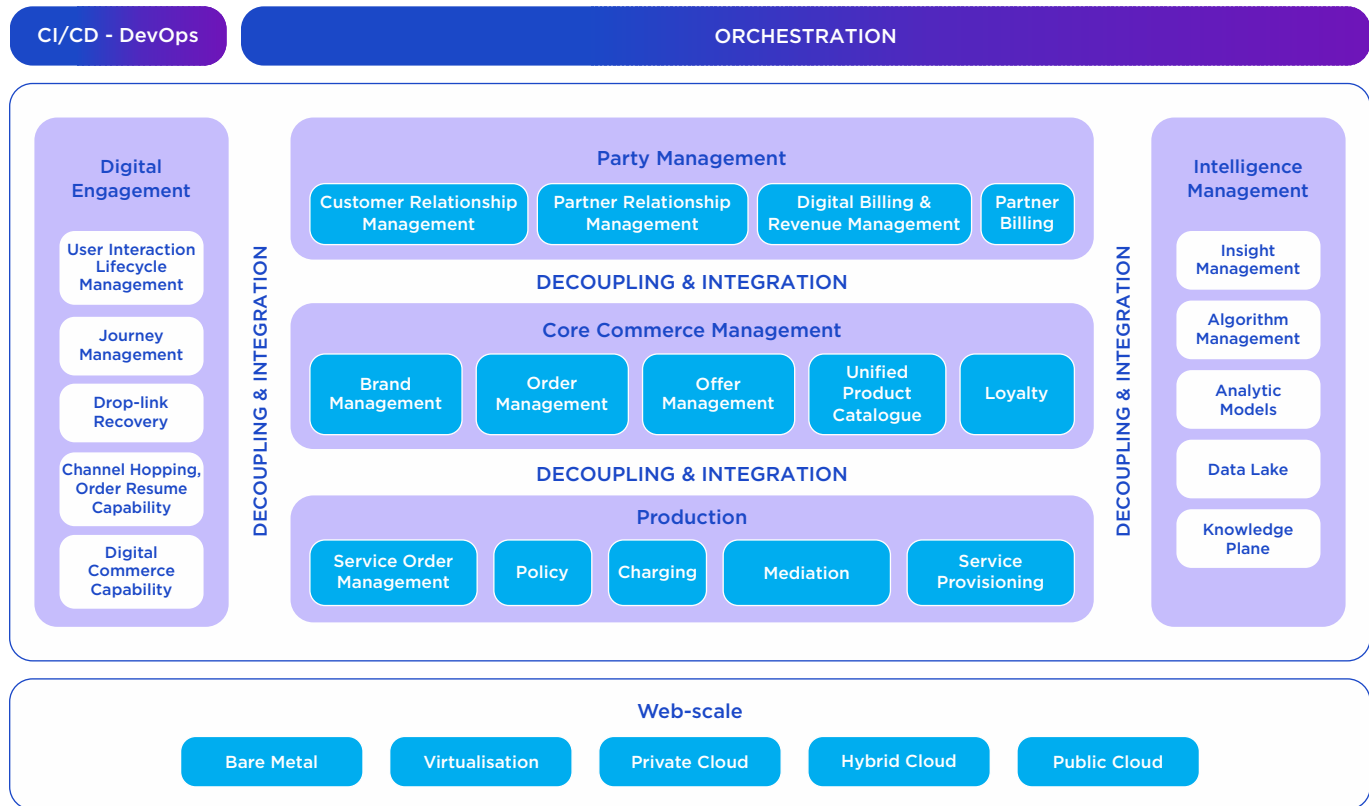


Intellza



NEXT-GEN dBSS/OSS ARCHITECTURE

STL's Next-gen dBSS/dOSS portfolio is geared to provide end-to-end business continuity.



dEP

Redefine customer experience through business agility & operational excellence

dEP is a customer-centric platform that digitises each interaction and every engagement of CSPs, its customers and partners. The platform is tailored specifically for CSPs with complete selling, self-care capabilities to provide an immersive customer experience. It improves the operational efficiencies of CSPs by replacing back-office operations with end-to-end automated processes and enriches the end-user experience by providing one-stop telco storefront for all their needs.

Product Highlights



Meaningful Interaction:
Making customer journey truly engaging and meaningful



Engaging Platform:
Providing new avenues to interact and engage with customers



Easy Monetisation:
Allowing easy monetisation of services via every touch point, channel and device



dBSS

Seamless monetisation of digital services

dBSS is a single converged platform that simplifies billing process and ensures intelligent revenue management of digital services. The cloud-ready platform is designed with the emphasis on improving agility, customer experience and efficiency. Integrated analytics of dBSS allows CSPs to provide personalised offers based on subscribers' usage levels. The real-time prepaid-post-paid convergent charging allows CSPs to quickly launch complex products and on-demand plans. The converged and modular architecture of the platform enables CSPs to scale up the solution as they grow. The extendable product catalogue, Open APIs and policy-driven business logic allow CSPs to provide unparalleled digital customer experience.

Product Highlights

**Optimise Performance:**

Real-time request processing enabling multi-fold performance improvement

**Automated KPI-driven****Business Process:**

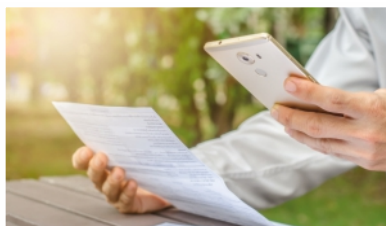
Automated bill generation, cancellation and back-out processes

**Enterprise Billing:**

Flexible and service-agnostic billing engine enables monetisation of any service with support for large accounts

**Policy-based Engine:**

Policy-based dunning and collection engine guarantees unique treatment to the consumer based on configurable attributes



dPCC

Integrated solution with real-time policy & charging

The beauty of dPCC is a centralised Subscriber Profile Repository powering the common policy and charging framework. dPCC allows CSPs to offer innovative, convenient and flexible ways for subscribers to buy and use on-demand services, and get real-time upgrades, service passes and advice of charge alerts. The future-ready platform is SDN & NFV compliant capable of scaling up to address the next-gen 5G and IoT requirements. The platform reduces signalling and synchronisation issues resulting in superior performance.

Product Highlights

**Real-time Execution:**

Enabling CSPs with instant policy enforcement decisions

**Seamless Convergence:**

Seamless convergence of prepaid & post-paid plans, networks and services

**Innovative Offering:**

Delivering innovative, convenient and flexible services to subscribers



INTELLZA

The next generation analytical intelligence

Intellza, the intelligent data platform, is a scalable data powerhouse solution offering unified data storage, integrated analytics and intelligent search abilities for simplified user experience and meaningful insights. The business intelligence systems of Intellza optimises business and go-to-market strategies, and allows CSPs to craft real-time customer offers. The unified customer usage patterns from legacy networks available on a single platform allow CSPs to bundle packages including cross-selling, cross-discounts and a-la-carte offers to retain high-value customers and increase average revenue per user.

Product Highlights



Actionable data insights through MI, AL & Cognitive Analytics



Diversified data monetisation streams



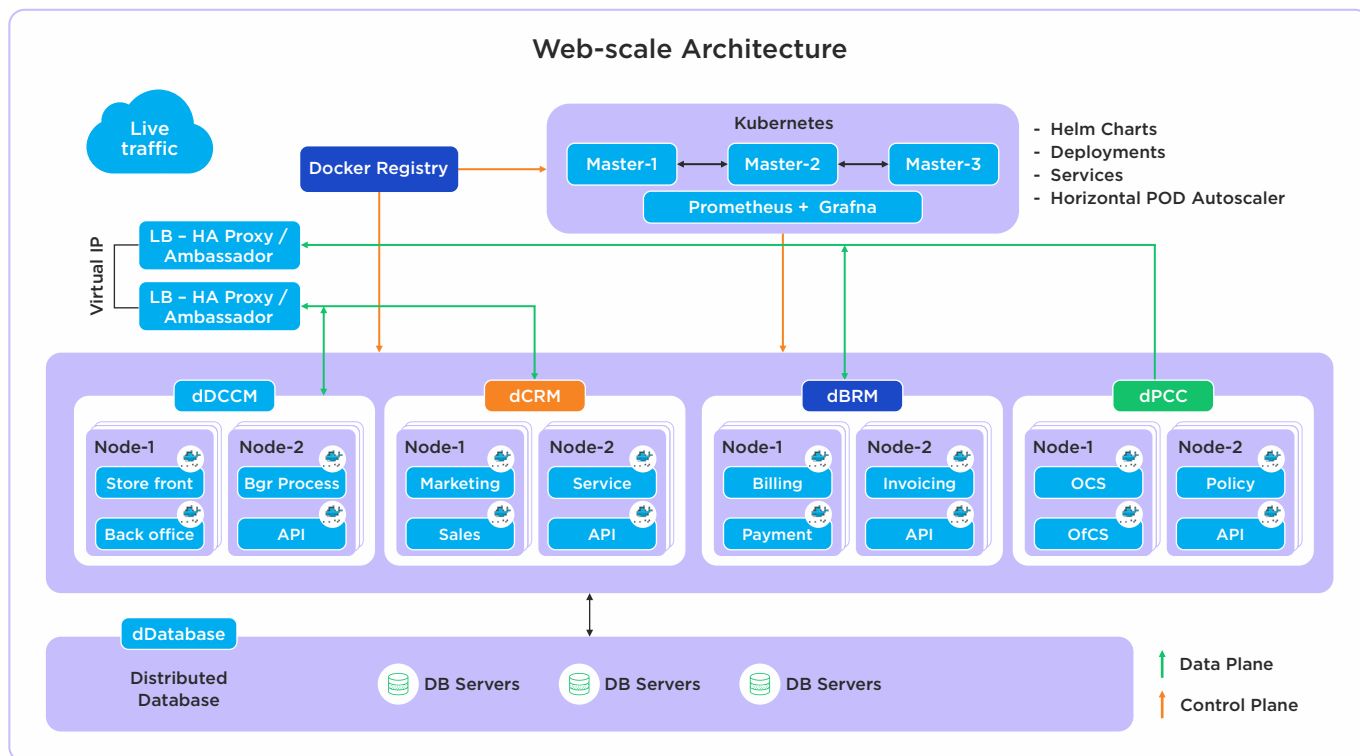
Web-scale data store & data processing



Sift through data at lightning speed

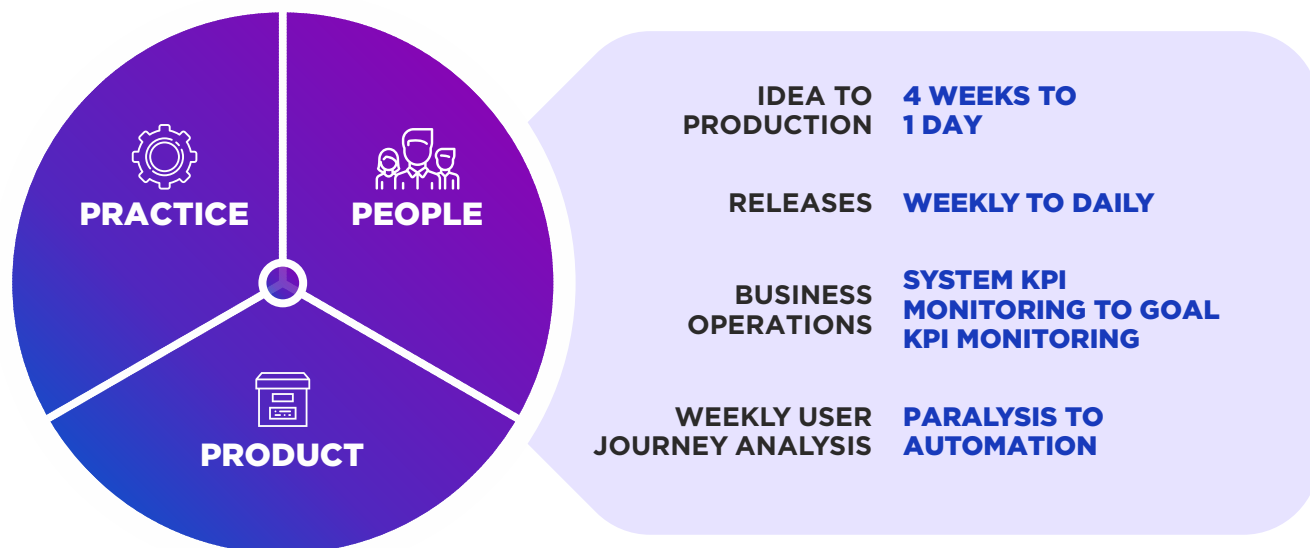
WHY STL NEXT-GEN dBSS/dOSS?

NEW AGE CAPABILITIES



DEVOPS & AGILE DRIVEN ACCELERATED DELIVERY

Agile practices enable quick releases and active KPI monitoring.



SQUAD TEAMS

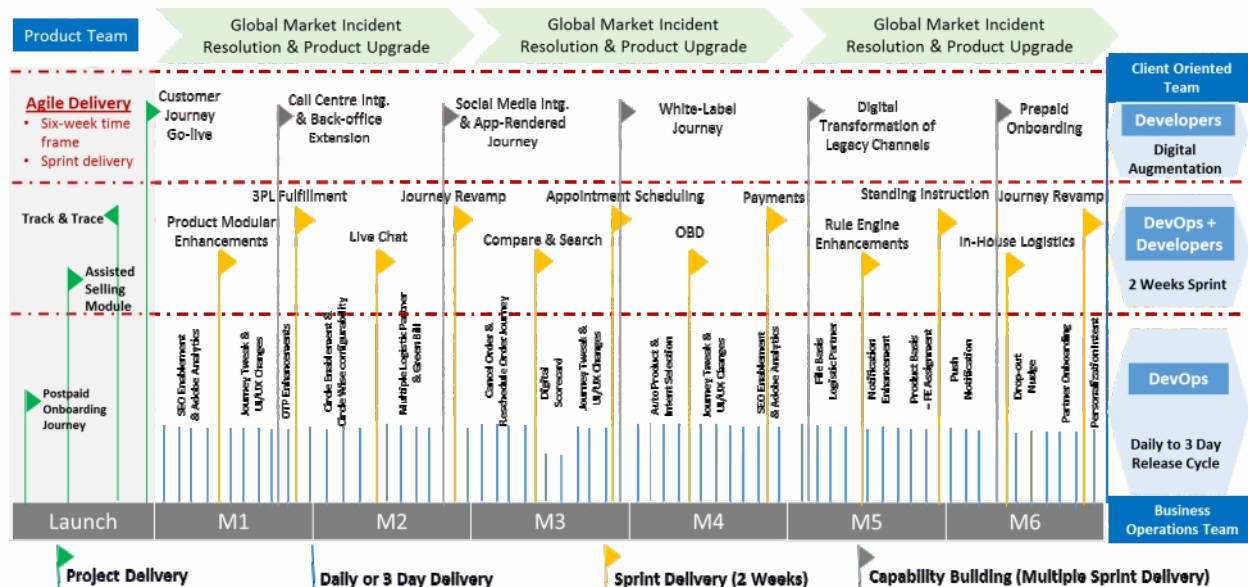
1. Business Operations Team
2. BAU Team
3. New Capabilities

PLATFORM

The platform accelerates digital experience for retail, enterprise and partnerships. It can be deployed as a digital layer without changing the underlying legacy systems.

THREE-SPEED AGILE DELIVERY MODEL

For the existing customer, the next-gen dBSS/dOSS enables the CSP with three-speed delivery model to fast-forward their digital reinvention. This facilitates incremental releases ensuring total business continuity. The three-speed delivery model helps the CSP to digitally reinvent itself without hindering business continuity.





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About Sterlite Technologies:

Sterlite Technologies Limited (STL) is a global leader in end-to-end data network solutions.

We design and deploy high-capacity converged fibre and wireless networks. With expertise ranging from optical fibre and cables, hyper-scale network design, and deployment and network software, we are the industry's leading integrated solutions provider for global data networks. We partner with global telecom companies, cloud companies, citizen networks and large enterprises to design, build and manage such cloud-native software-defined networks.

STL has innovation at its core. With intense focus on end-to-end network solutions development, we conduct fundamental research in next-generation network applications at our Centres of Excellence. STL has strong global presence with next-gen optical preform, fibre and cable manufacturing facilities in India, Italy, China and Brazil and two software-development centres.

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