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StreamWIDE

www.streamwide.com

SHAPING
INNOVATION

YOUR PARTNER FOR VAS INNOVATION   StreamWIDE

TABLE OF CONTENTS

**Service
Providers**

Mobile

**Landline/Multiplay/
Broadband Providers**

**Business
Telephony**

StreamWIDE product lines provide you with unique, customizable solutions designed to meet your market demands. To quickly identify which StreamWIDE solutions will benefit your customers, look for the market icons located in the top corner of each product page.

Pascal Beglin
StreamWIDE CEO

Digital Transformation Made Real

The movement towards "digitalization" has been going on for a generation: the migration from analog to digital telephony, wired to wireless technology, hardware based networks to NFV, paper to electronic files. However, true Digital Transformation is only just now starting to be realized.

Technology is meeting market demand in the form of ever more powerful smartphones, interconnected devices, contactless technologies such as NFC, viable cloud-based platforms, and ubiquitous networks including 3G, 4G LTE, and Wi-Fi, for human and objects generated traffic.

The human consumers of technology have also been changing. The smartphone is now the primary screen for work and play. Both employees and customers are always on, and always expecting results – not just during business hours anymore. People are finally comfortable enough with mobile technology to actually be mobile, and work from anywhere at any time.

True Digital Transformation, as the convergence of these two phenomena, is the theme for 2017. Companies have spent more than $907 billion annually on digital investments, and digital transformation initiatives are expected to more than double over the next four years.

Now that people are truly adopting digital mobile lifestyles – and the current generation of smartphones, tablets, and networks are able to accommodate them – the next step in the workplace is to unleash the benefits of this digital era to dramatically increase productivity, automate repetitive tasks, enhance quality, guarantee compliance and get real time info on any operation. Digitalizing business processes is the key to start this revolution in Business Process Management which used to be reserved to large assembly lines can be used for any operation of any size in any industry and especially the service industry.

That's where we come in: StreamWIDE is proud to introduce My Business! My Business is an integral part of our Team on the Run platform, and it's designed to help you with digitalization and business process management. Complemented with the existing communications and connectivity features – Team on the Run becomes the most comprehensive team management platform on the market today. With flexible case management, an outstanding user interface and powerful communication tools, Team on the Run allows front line employees to answer immediately to increasingly demanding customers even when facing unusual situations.

Telcos are especially well positioned to sell this new value proposition to their customers and bring more to the table than just wireless or fixed lines.

So, the good news is that the right tools to help you do this are finally becoming available. You just have to take the first step in adopting the right platform.
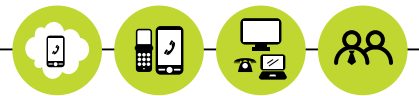
YOUR PARTNER FOR VAS INNOVATION & OTT-LIKE SERVICES

With a comprehensive end-to-end offer ranging from core network solutions to mobile and web applications, StreamWIDE assists operators and service providers worldwide in facing the challenge from Over-the-Top service providers and shaping their value-added-service innovation. StreamWIDE next generation software technology enables legacy system replacement, as well as innovative VAS & OTT-like service launches in the areas of mobile messaging, call completion services, visual voicemail, virtual numbers, social telephony, convergent charging, conferencing, virtual contact center solutions, call control and routing. However, that's not all: StreamWIDE is also developing and refining market-forward solutions for communications, process optimization, and team management that will help partners establish themselves as leaders in digital transformation.

Operating from five continents, StreamWIDE deploys dedicated teams wherever they are needed to provide professional services, support, and assistance to each customer and business partner. This personalized and regional approach allows StreamWIDE to tailor each solution for the unique needs of its customers including network, infrastructure, and cultural requirements.

Key Facts

◗ Incorporated in 2001

◗ Specialist in carrier grade value-added services and mobile business process solutions for operators and enterprises

◗ Headquarters in Paris, with offices in the USA, China, Singapore, Romania, Austria, Tunisia, and Argentina

◗ Patent-protected software technology

◗ Public company listed on the Alternext (Euronext) stock exchange: ALSTW

EURONEXT

KEY FIGURES

◗ 8 Local Offices

◗ Deployments in 70+ countries 5 continents

◗ 130+ Customers

◗ 100M+ End-users

◗ 24/7 Worldwide Operations

MEETING
EACH MARKET'S EXPECTATIONS

Because User Experience is key to Operators' success and each market is unique with specific needs for configuration and customization of VAS, StreamWIDE provides local engineering teams, international localization services and highly customizable solutions.

Chicago, USA

Boston, USA

Metro Area, NYC, USA

Paris, FRANCE

Vienna, AUSTRIA

Bucharest, ROMANIA

Tunis, TUNISIA

Buenos Aires, ARGENTINA
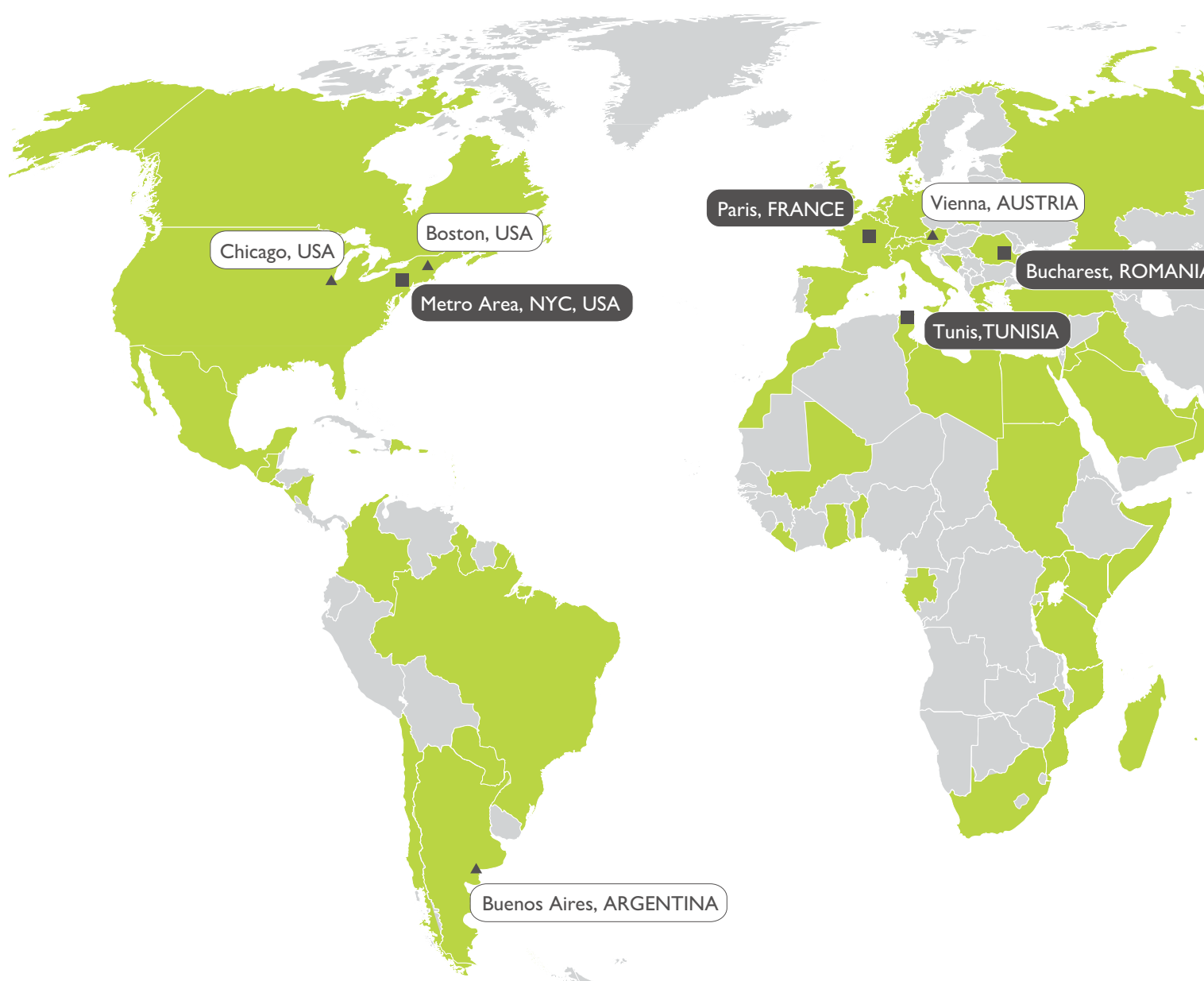
Local Engineering Teams

Leveraging its five Global Offices in USA, France, Romania, China and Tunisia, StreamWIDE provides presales, delivery and support resources to its customers with the greatest proximity and reactivity.

Our engineers practice many languages including English, Spanish, Arabic, Mandarin and French.

Our dedication to providing total customer satisfaction is evidenced by our commitment to solid delivery procedures and methodologies that are ISO 9001-2008 certified and constantly monitored and enhanced.

Localization, Branding and Customization Services

We offer full services for our customers who need to localize, brand and customize the interfaces their end-users will interact with, whatever the format, telephony, web, or mobile.

Localization services include prompts and web/apps label translations, voice talent selection, prompt recording, grammar adaptation as well as final quality checks and customized testing.

All of our multimedia interfaces support branding, from simple logo and color adaptations to full label and image adaptation.

The flexibility of our products also enables the StreamWIDE Engineering teams to easily meet customer specific needs such as call-flow adaptations, third-party component integration or Web or Mobile User Experience modification.

Beijing, CHINA

SINGAPORE

- ■ Global Office
- ▲ Sales Presence
- ■ Market Presence

KEY FIGURES

- ◗ Live solutions running in multiple languages
- ◗ Specific grammar and alphabet support in 25+ languages
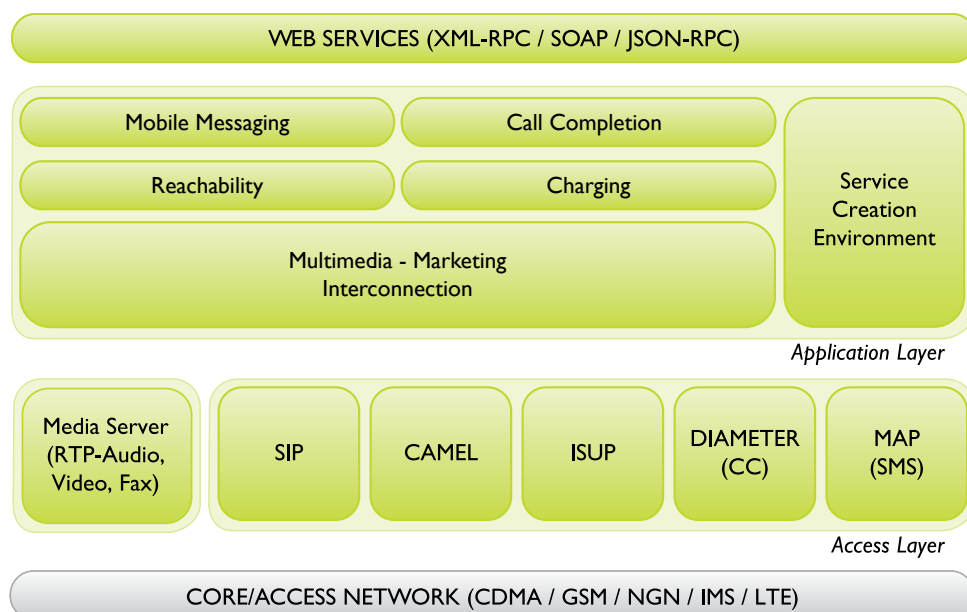- ◗ 160 000 words translated and recorded yearly
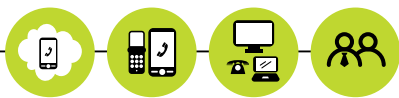
COMPREHENSIVE VAS &
OTT APPLICATION PORTFOLIO...

S treamWIDE surpasses its competition by offering a comprehensive, custom or off-the-shelf next generation value-added service product line that adapts to all types of core networks, from legacy TDM, 2G, 3G, to LTE, pre-IMS and IMS networks, and serves multiple markets, from online service providers to mobile, landline, business and MVNO operators.

Our Applications Servers are organized by Families of services including:

◗ Call Completion: Next Generation Call Completion Solutions

◗ Reachability: Virtual Number and Social Telephony

◗ Charging: Next generation convergent online charging

◗ Team on the Run (TOTR): Business process communications and team management platform designed to help business realize true digitalization

◗ Team on Mission (TOM): A secure, on-premises platform for team management providing Mission Critical Push-To-Talk and data, tracking, voice, video streaming, and dispatching for public safety teams

WEB SERVICES (XML-RPC / SOAP / JSON-RPC)

Mobile Messaging	Call Completion	Service Creation Environment
Reachability	Charging	
Multimedia - Marketing Interconnection		

Application Layer

Media Server (RTP-Audio, Video, Fax)	SIP	CAMEL	ISUP	DIAMETER (CC)	MAP (SMS)

Access Layer

CORE/ACCESS NETWORK (CDMA / GSM / NGN / IMS / LTE)

Detailed datasheets for each product within each family are to be found in the second part of this catalog.
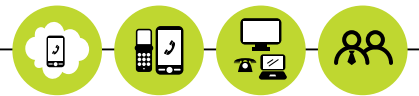
...FROM APPLICATION SERVERS TO APPS

S treamWIDE dedicates a significant portion of product development resources to designing and developing user interfaces that complement each of our consumer-oriented application servers. From web interfaces to apps for smartphones and tablets, our User Experience department builds High-Quality and User-Friendly White-Label applications leveraging latest web and mobile OS and development guidelines and standards.

Benefit from StreamWIDE is unique end-to-end offering to provide advanced User Experience to your Residential and Business subscribers!

| Core Network Application Servers | Mediation / Security | Web / Mobile Tablets / Apps |

End-to-End Value Proposal

Team on the Run Web Admin interface statistics

Creating a Call Center Routing Plan in a few clicks

TOTR Messaging for iPhone® or Android™

Retrieving Voice Messages from the Fixed Line on iPad®

Getting Transcribed Voice Messages on a Android™ smartphone

Adjusting availability settings of a Virtual Number

TECHNOLOGY TO MOVE
AT THE SPEED OF OTT PLAYERS

Since its incorporation in 2001, StreamWIDE engineers bet on the convergence between telecom and IT technologies, convinced of the terrific value IP could bring in terms of Innovation, Time-to-Market and Total Cost of Ownership.

The market landscape is changing rapidly, and operators need to build "stickiness" with their clients now more than ever. One of the strongest trends in the 2017 market is the race towards digitalization. StreamWIDE provides powerful OTT solutions for digitalization that can make operators indispensable.
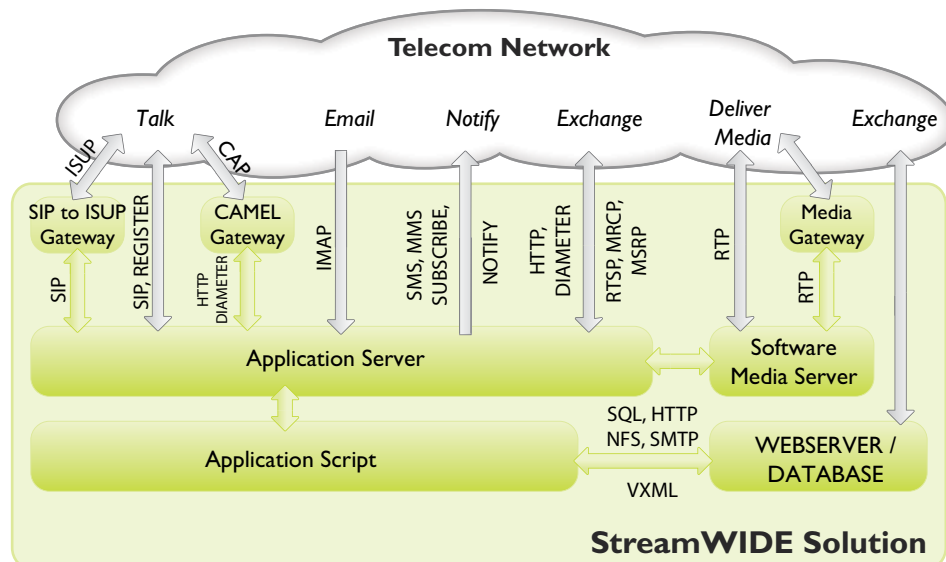
HIGHLIGHTS

‣ 100% software solutions

‣ Application servers run on commercial, off-the-shelf (COTS) Intel-based hardware running Linux® or virtual machines

‣ Cloud-ready architectures

‣ Proven interoperability with major R4 MSCs, IMS core networks, and NGN softswitch vendors

‣ Scalable, extensible, highly redundant carrier-grade architectures

‣ Open APIs for provisioning and integration with third-party components

‣ SIP & DIAMETER interconnectivity (IETF / 3GPP IMS) through proprietary stacks

OPERATOR BENEFITS

‣ Build stickiness by providing an invaluable "one stop shop" service to customers

‣ Proactive innovation without heavy infrastructure investment

‣ Deploy VAS solutions at the speed of OTT's

‣ Communications services such as VoIP calling and PTT that complement your offerings

‣ Device agnostic platform keeps you front-of-mind with the customer

‣ Opportunities for White Labelling

AGILITY TO OVERCOME COMPETITION!

Leverage the Cloud to Trial & Deploy Faster

Thanks to its 100% software model, StreamWIDE application servers can be deployed with equal performances and reliability whether on a physical server or on a virtual machine. As a result, operators can virtualize their telecom services platforms and enjoy same benefits than the ones experienced on IT systems.

Virtualization Benefits Applied to Network Operators

▶ Faster application deployment

▶ Savings on hardware resources and maintenance

▶ Savings on hardware redundancy mechanisms (redundancy N+1)

▶ Energy savings

▶ Smaller footprint

▶ Improved scalability

▶ Streamlined testing and trial processes
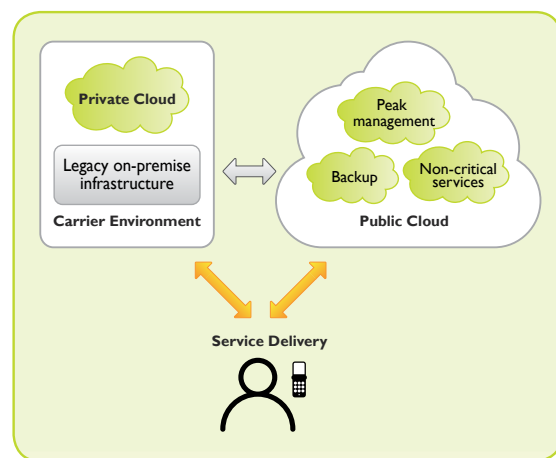
Most operators will choose to run their virtualized service platforms within the boundaries of a "private cloud", where physical machines belong to the network and a pool of applications are running simultaneously on virtualized servers. However, different approaches can be considered, including the following use cases:

▶ **Private Cloud for multi-VAS architecture:** Different VAS share the same hardware infrastructure. Servers are virtualized which enables related services to seamlessly request more capacity whenever they experience traffic surge.

▶ **Public Cloud for VAS peaks management:** VAS liable to experience traffic peaks are duplicated within a public cloud environment. Whenever traffic is stable, public cloud isn't activated and costs stay close to zero; at peak occurrences, traffic is redirected to the public cloud. Service downtime is avoided and on-premise infrastructure is sized according to average traffic levels.

▶ **Public Cloud for Applications Beta Testing:** Operators can now consider beta-testing or soft-launching new VAS without investing into new hardware by leveraging public cloud.

> 66 *We are excited to see StreamWIDE offering their customers the opportunity to move voice applications to AWS. By moving to the cloud StreamWIDE is offering their customers a secure, high quality, pay as you go alternative to on-premise telecoms installations.* 99

**Terry Wise**, Director of Strategic Partnerships at Amazon Web Services

CALL COMPLETION

Address different segments with adapted call completion solutions

As voice services margins are declining and new telephony usage patterns are emerging, operators need to revise their approach to legacy voicemail and voice call completion services.

Within the Call Completion product line you will find a comprehensive set of next generation messaging solutions to differentiate from competition, monetize your network and streamline your existing infrastructure:

◗ Visual Voicemail

◗ Next Generation Voicemail

◗ Missed Call Alert

◗ Reachability Alert

◗ Voice SMS/Text

◗ Business Voicemail
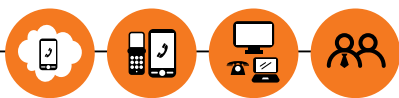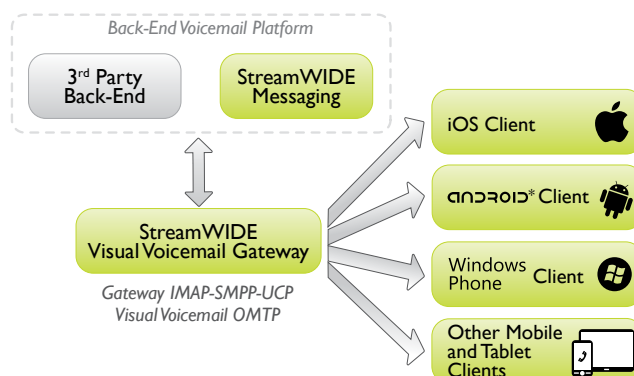
Visual Voicemail

Visual Voicemail for iOS, Android, and Windows Phone

S treamWIDE Visual Voicemail (VVM) provides an enhanced user experience through a visual display of voice messages on the terminal screen. This service requires the following three components: a back-end voicemail platform (such as StreamWIDE Messaging), a visual voicemail gateway, and a mobile client on the handset. For maximum flexibility, StreamWIDE makes these components available separately or as a bundle. StreamWIDE Visual Voicemail solutions runs on iOS, Android, and Windows Phone devices.

Back-End Voicemail Platform — 3rd Party Back-End — StreamWIDE Messaging — StreamWIDE Visual Voicemail Gateway — Gateway IMAP-SMPP-UCP Visual Voicemail OMTP — iOS Client — android* Client — Windows Phone Client — Other Mobile and Tablet Clients

Large set of visual messaging use cases

◗ Voicemail to email (notification-based or IMAP-based)

◗ Voicemail on web portals

◗ Voicemail on TV

◗ Voicemail to MMS/Multimedia

◗ Direct Messages

◗ Visual Voicemail applications for smartphones and tablets

Visual Voicemail Gateway

◗ Secure exchanges between voicemail back-end and applications

◗ Manages clients notifications and application wake-up (SMS, APNs® and other manufacturers Push mechanisms)

◗ Manages protocol adaptations: IMAP, HTTP, XML-RPC, SMS/Text, APNs®,

◗ Compliant with iPhone® and Windows® Visual Voicemail clients

◗ Compatible with StreamWIDE or third-party voicemail

◗ Supports VVM for wireline (read fixed messages on a mobile or tablet)

*APNs is a trademark of Apple Inc., registered in the U.S. and other countries. Windows is a trademark of Microsoft Inc registered in the U.S. and other countries. Android is a trademark of Google Inc. Use of this trademark is subject to Google Permissions.

CALL COMPLETION

In-house Native Applications

❯ For Android™, iPhone® and iPad® devices

❯ Notification of new messages

❯ Seamless messages and missed call display

❯ Callbacks, reply by SMS/Text/e-mail local address book interaction

❯ Compatible with voicemail-to-text services

❯ Rich settings and greetings capabilities

❯ Offline mode support

❯ Customizable colors and themes

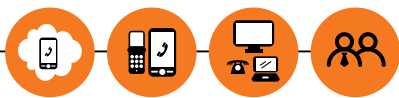❯ Preloaded on the handset or downloaded from application store

Native Applications

❯ Support for Android™, iPhone® and Windows Native Operating System Visual Voicemail integration

SERVICE PROVIDER BENEFITS

❯ Provide the Visual Voicemail experience to all your smartphones and tablets subscribers
❯ Generate more call backs and terminating calls, sell premium features and launch higher packages
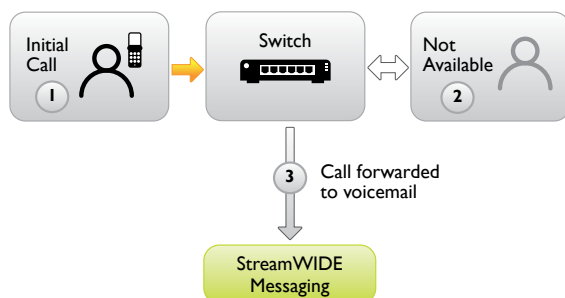❯ Differentiate, increase subscribers' satisfaction and reduce churn

CALL COMPLETION

Next Generation Voicemail

IP-based Convergent Voicemail for Fixed and Mobile Operators

Calls that terminate at voicemail comprise a significant portion of voice-related revenues for operators. However, as networks converge and market pressure intensifies, operators now expect voicemail systems to exceed basic functionalities and become active differentiation and loyalty-driving devices. To fulfill these requirements, the voicemail component of StreamWIDE Call Completion is a convergent, multimedia, multi-language, end-to-end solution that is easily adapted to high-end innovations such as visual voicemail, fixed-mobile convergence, and voice-to-text services.

me/follow me
◗ High definition audio/video codecs
◗ Multi-tenant capabilities for virtual operators and MVNOs

Flexible Mailbox Management
◗ Numerous mailbox access methods: telephony, video, TV, web, handset
◗ Multiple notification types: call, SMS/Text, MMS/Multimedia, MWI, e-mail with attachment
◗ Multilanguage interfaces
◗ Time Zones management

Simplified operations
◗ Auto-provisioning
◗ Web-based operations console
◗ Dynamic Mailboxes capabilities
◗ Scalable cloud ready architecture for very large deployments

Convergent & Multimedia
◗ Support for fixed-mobile convergent mailboxes
◗ Convergent call flows for families or businesses
◗ Natively multimedia: voice, video, fax

Advanced Capabilities
◗ Advanced greetings: caller & time-dependent greetings, dynamic greetings, holiday greetings, international greeting
◗ Advanced services: voicemail-to-text support, voice command, call blast, caller screening, find

SERVICE PROVIDER BENEFITS
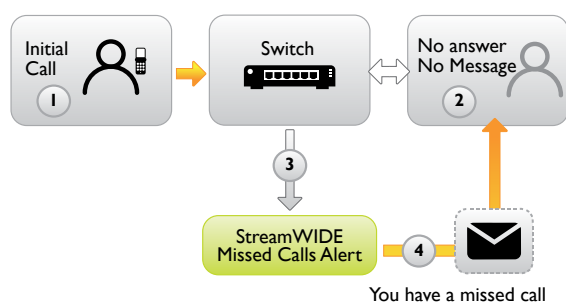
◗ Get a market leading Next Generation voicemail platform at a fraction of legacy systems' operating costs
◗ Increase call completion and revenues with advanced residential and business features
◗ Simplify your voicemail operations with a robust, reliable system that is easy to operate and support
◗ Virtualize your voicemail and enjoy the benefits of cloud-based architectures

Missed Call Alert

A Smart Alternative to Capture Revenue on Uncompleted Calls

In contexts where the classic voicemail model faces reluctance from customers, alternative solutions such as missed call alert help recapture lost completion revenue. By notifying mobile subscribers of the calls they miss when their phones are switched off or the network is unavailable, operators provide a higher quality of service, which increases callback rates and maximizes revenues.

You have a missed call

Multiple Deployment Options

◗ As a standalone service

◗ Bundled with StreamWIDE Reachability Alert

◗ As a feature within a larger voicemail system

◗ In parallel with a legacy voicemail

Extensive Notification Capabilities

◗ Aggregated SMS/Text, one notification per caller, or multi-caller notifications

◗ Permissible hours for SMS/Text reception

◗ Billing option

Multiple provisioning methods

◗ Batch provisioning

◗ Auto-provisioning

◗ Web service (CML-RPC-SOAP)

Easy Upgrades on the Same Platform

◗ Voice SMS/Text services

◗ Full voicemail system

◗ Reachability Alert service

SERVICE PROVIDER BENEFITS

◗ Drive up ARPU by generating revenue through increased callbacks
◗ Enhance customer service by providing valuable missed call information to subscribers
◗ Deploy an extensible solution where you can add more voice messaging services on the same platform
◗ Virtualize your MCA platform and enjoy the benefits of cloud-based architectures
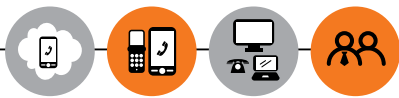
CALL COMPLETION

Reachability Alert

A-Party Service for Driving Inbound Call Revenues

S treamWIDE Reachability Alert is a simplified messaging service that allows in-network mobile subscribers whose correspondents were out of reach, to be notified upon availability. Often deployed in conjunction with a missed call alert system, the reachability alert service provides a straightforward, provisioning-free application that helps capture lost revenue from uncompleted calls.

The person you called is now available.
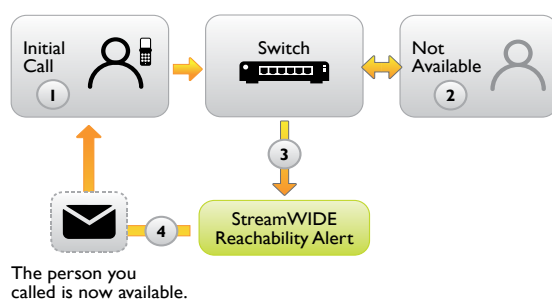
Flexible Deployment Options
◗ Deploy as a standalone service

◗ Bundle with a StreamWIDE Missed Call Alert service

◗ Deploy as a feature inside a broader voicemail system

Unavailability Detection
◗ Handset turned off

◗ Handset out of coverage

Extensive Notification Capabilities
◗ SMS/Text

◗ Permissible hours for SMS/Text reception

◗ Subscription Management through telephony and web user interface

Easy Upgrades on the Same Platform
◗ Voice SMS/Text services

◗ Full voicemail system

SERVICE PROVIDER BENEFITS
◗ Generate added revenue on telephony calls without deploying a full voicemail service
◗ Complement your missed call alert system with an A-party solution
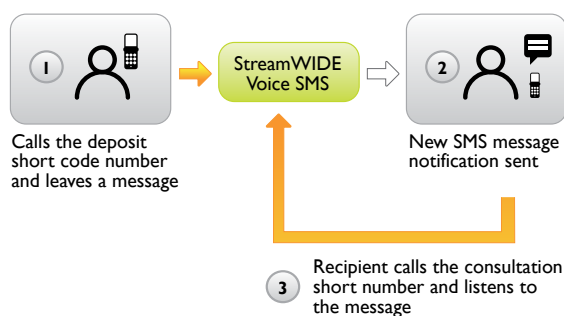◗ Leverage the benefits of a straightforward messaging service without provisioning constraints

By deploying StreamWIDE Voice SMS service to 5+ million mobile and fixed line subscribers, a major telecom operator in North Africa enlarged its portfolio of premium communication services and generated a new stream of revenue.

Voice SMS

A Powerful Solution Offering Simplicity of SMS to Voice Messaging

The Voice SMS component of StreamWIDE messaging is a simplified voice messaging application that blends the benefits of voicemail with the simplicity of the SMS/Text business model. With this module, a caller can dial a specific number, pay a fixed price, and leave a voice message. The called party is then notified and can listen to the message for free.

1 Calls the deposit short code number and leaves a message

StreamWIDE Voice SMS

2 New SMS message notification sent

3 Recipient calls the consultation short number and listens to the message

Voice Message Deposit Methods

◗ Call a specific number

◗ Dial a prefix followed by the called party's number

◗ Same functionality as voicemail: record, re-record, and review capabilities

◗ Multi-language support: the caller can choose the language of the primary menu

◗ Ability to transfer voice message to another phone number

◗ Meaningful security through the creation of a unique access code for each called party

Called Party Notification Methods

◗ Call

◗ SMS/Text

◗ MMS/Multimedia

◗ E-mail

Message Storage and Format

◗ Use of temporary mailboxes

◗ Extensive set of high definition audio codecs

◗ Video SMS/Text support

◗ Voicemail-to-text integration

SERVICE PROVIDER BENEFITS

◗ Generate new revenue with a premium service by applying the SMS/Text business model to a voice messaging service
◗ Offer customers an alternative communication service
◗ Reap the benefits of a cost-effective system with quick network integration, no provisioning, and use of temporary mailboxes
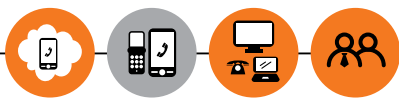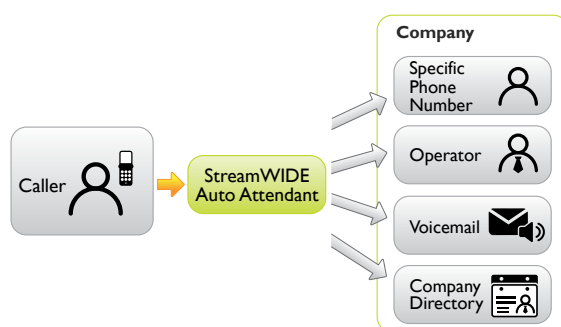
CALL COMPLETION

Business Voicemail

A Premium Call Reception and Routing Solution for the Business Sector

S treamWIDE Business voicemail combines all the benefits of StreamWIDE standard voicemail service with an Auto-attendant including advanced call hunting and call screening features. Companies looking to enhance caller experiences and reduce missed calls can take advantage of the business voicemail features to implement efficient call routing to the appropriate employees or departments.

Full Call Completion suite for Businesses

◗ Full StreamWIDE Voicemail Service

◗ Rich customized greetings

◗ Auto-Attendant service

◗ Call Hunting (Call Blast, Follow me Find me)

◗ Call Screening services

◗ Record calls

◗ Denial Lists

Auto-Attendant Specific Features

◗ Multiple IVR menu levels

◗ Time-dependent menus

◗ Call Recording

◗ Call filtering

◗ Dial by extension

◗ Greeting scheduling

◗ Callers Interaction through DTMF or Voice Command

◗ Transfer to a person, to a company directory or to voicemail

◗ Multiple voicemail consultation menu

SERVICE PROVIDER BENEFITS

◗ Increase revenues with a premium suite of business services
◗ Improve call completion rate for business calls
◗ Challenge Over-The-Top business offerings
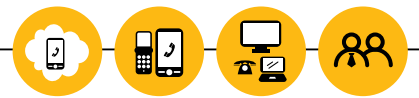
REACHABILITY

Preserve brand loyalty and add value by creating innovative telephony experiences

StreamWIDE Reachability product line is based on StreamWIDE Global Communications, a SIP and CAMEL-based call control and routing solution providing connectors to social networks and SIP end-points. StreamWIDE Global Communications supports many different use cases where telephony services are built and deployed like OTT services:

▶ Virtual Number

▶ Diaspora Number

▶ Call Screening & Filtering

Stake your claim on the user loyalty battlefield by giving users control over their communication experiences. Build a connection between your brand and the services your users value most.
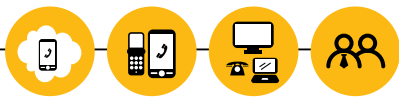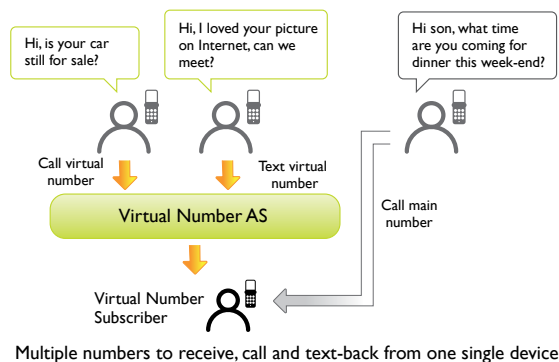
Virtual Number

Premium Privacy Protection Telephony Service

Whether they wish to separate private from professional life on their handset, to preserve their identities online when they are posting classified advertisements, gaming or dating, your subscribers are looking for solutions to preserve their privacy without having to juggle with multiple devices or SIM cards. StreamWIDE Virtual Number is a field-proven OTT service platform, CAMEL or SIP-based solution, enabling your subscribers to call, be called, text and receive texts from one single handset, enjoying one or multiple additional private numbers.

Hi, is your car still for sale?

Hi, I loved your picture on Internet, can we meet?

Hi son, what time are you coming for dinner this week-end?

Call virtual number

Text virtual number

Call main number

Virtual Number AS

Virtual Number Subscriber

Multiple numbers to receive, call and text-back from one single device

Virtual Line Service

◗ Support for Calls MO/MT, SMS MO/MT use cases

◗ Prefix-based calls/SMS originating methodology

◗ Roaming use cases management

◗ Emergency numbers handling

◗ CAMEL/MAP Front-end for integration in any Mobile Network

◗ Subscription, Authentication and provisioning APIs

◗ SIP Interface for integration with IMS Service Brokers

Voicemail Integration

◗ Native integration with StreamWIDE voicemail

◗ API for integration with legacy voicemail

Advanced Capabilities

◗ Availability management: time or number-based call rejection settings

◗ Privacy and filtering features: denial lists, do not disturb function

◗ Self-Care smartphone app

◗ Support for USSD self-care for features phones

◗ Virtual HLR capabilities (optional)

◗ Virtual Numbers Pool management (optional)

SERVICE PROVIDER BENEFITS

◗ Increase revenues by delivering a premium privacy protection service

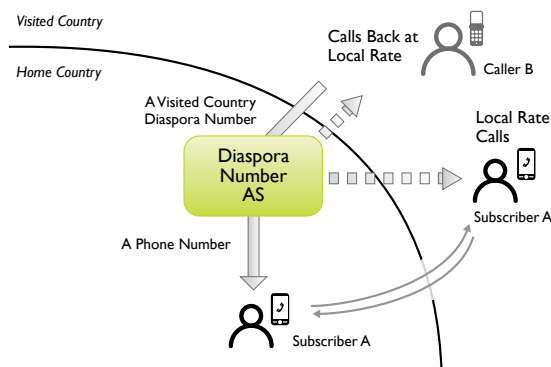◗ Differentiate with an innovative legacy telephony service

Diaspora Number

Premium local number service for roamers

Members of Diasporas, expatriates or frequent travelers connecting between two countries can choose between many different commercial offers to call their relatives from abroad at affordable rates. Though, most of these offers often come with inconveniences that inhibit their usage: unreliable Internet-based services, multiple SIM-based offers, cheap outgoing calls only.

Thanks to StreamWIDE Diaspora number service, mobile operators can now address those segments with a robust, comprehensive mobile phone-based two-ways communication service. A second number belonging to a visited country plan is "virtually" attached to subscriber initial phone number. Calls, SMS can be placed and received at local rates whatever the country they are originated/received from. Subscribers' relatives abroad get a cheap way to call back and thus generate incoming traffic.

Local Number for visited country

◗ Second "Virtual" MSISDN Number enablement on one single device

◗ Second MSISDN belongs to visited country plan

◗ Support for MOC/MTC, SMS MO/MT use cases

◗ Prefix-based calls/SMS origination in visited country

◗ Roaming use cases management

◗ CAMEL/MAP Front-end for integration in any Mobile Network

◗ SIP Interface for integration with IMS Service Brokers

◗ Subscription, Authentication and provisioning APIs

Voicemail Integration

◗ Native integration with StreamWIDE voicemail

◗ API for integration with legacy voicemail

Advanced Capabilities

◗ Availability management: time or number-based call rejection settings

◗ Filtering features: denial lists, do not disturb function

◗ Self-Care smartphone app

◗ Support for USSD self-care for features phones

SERVICE PROVIDER BENEFITS

◗ Complement international low rate call service & Credit transfer service offers
◗ Increase termination revenues & ARPU
◗ Win market shares abroad without need for physical brand presence
◗ Compete against OTT international communication offers
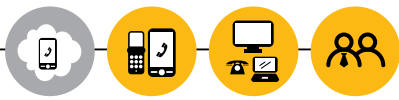
REACHABILITY

Call Screening & Filtering

Premium Reachability Management Service

S treamWIDE Call Screening is a network-based solution enabling operators to offer premium reachability and privacy protection services to consumers and businesses segments. Using filters such as acceptance or denial lists, time or calendar-based filters or behavior-based filters, solution enables blocking or delaying incoming and outgoing voice, video calls and SMS communications. Thanks to APIs, customers can easily manage their reachability options through web, SMS, USSD or smartphone apps.
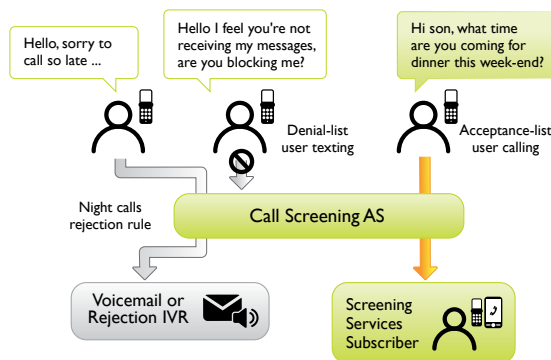
Filtering & Screening Features

▶ MOC/MTC barring

▶ SMS MO/MT barring

▶ SMS MO/MT delivery differ

▶ Filtering rules priorities management

▶ Acceptance and denial lists

▶ Filters by number, range of numbers or prefix

▶ Time or calendar-based filters

▶ Behavior-based filters

▶ SMS Notifications

Carrier-Grade Network-based solution

▶ Network-based Application Server-driven solution

▶ CAMEL/MAP Front-end for integration in any Mobile Network

▶ APIs for service activation and self-care (IVR, USSD, web, apps)

▶ SOAP, XML-RPC, and JSON-RPC API for provisioning and integration

▶ Multi-language support

SERVICE PROVIDER BENEFITS

▶ Increase revenues by delivering a premium privacy protection service
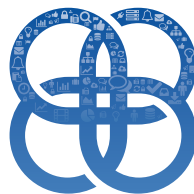▶ Differentiate with an innovative legacy telephony service

DIGITAL TRANSFORMATION

The movement towards Digitalization is real, and it's happening now!
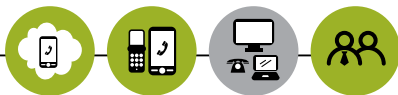
team *on the* **run**

team *on* **mission**

What is Digital Transformation?

Digital transformation is the process of shifting your organization from a legacy approach to new ways of working and thinking using digital, social, mobile and emerging technologies. It involves a different thinking, the encouragement of innovation and new business models, incorporating digitization of assets and an increased use of technology to improve the experience of your organizations for employees, customers, suppliers, partners and stakeholders.

The goal of digital transformation is to reshape the modern enterprise and automatize the processes you go through daily. Eliminate the hassle of passing documents by hand, or logging driver miles for fleet management by digitizing your processes and letting the technology improve your day to day.

DIGITAL TRANSFORMATION

Team on the Run & Digital Transformation

Team on the Run is the anchor behind your company's digital transformation, providing integrated, team-based communications with the ability to process, index and act upon information in real time with our My Business solution. Team on the Run is meant to take the weight off your business by unifying all communication tools and allowing processes to flow through one platform instead of being handed off from one platform to another.

With Team on the Run and our new tool, My Business, you can have all API's, communications, workflows and case management in one creative suite. My business also gives you the ability to implement business workflows directly within Team on the Run. This way, you can easily access information, fill out forms, or contact your employees from your smartphone.

When it comes to the digital transformation of a business, making sure you are safe and secure for the future is at the forefront. Team on the Run enables you to make sure employees can work together in any situation, and on a safe network.

team on the **run**

BENEFITS OF TEAM ON THE RUN

▶ Processes run on a communications platform
▶ Protect sensitive information
▶ Separate private and public communications
▶ Directory at a glance with push updates
▶ Locate teams anytime anywhere
▶ Structure your teams for instant, efficient departmental and group communications
▶ Share Information instantly and easily
▶ Keep track of all exchanges
▶ Ease of deployment without heavy investment
▶ Outstanding user experience boosting employee engagement and efficiency
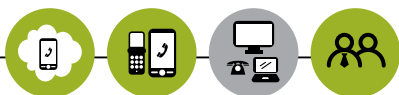
DIGITAL TRANSFORMATION

Team on the Run

Team on the Run is a secure Business Process Communication solution for businesses of all sizes, with global network connectivity. It includes features such as Geolocation, Push-to-Talk, VoIP, NFC-Tag and Dispatch Management which enable organizations to automate business processes and simplify communication in a secured way. Unlike general public communications apps, Team on the Run is managed by designated admins, and incorporates industry-leading security features, as well as the ability to remotely wipe sensitive data from lost or stolen devices. Now with My Business: it also offers task, process, and form management in order to help keep your team running smoothly.

◗ Secure IM and file sharing with end-to-end encryption

◗ VoIP calling and PTT on an unlimited number of channels

◗ Communicate via any standard Apple or Android devices – no expensive equipment needed

◗ Sync in real time between smartphone, ruggedized device, tablet, and PC

◗ Enable your teams to truly work from anywhere, on any device

DIGITAL TRANSFORMATION

My Business for Team on the Run

My Business provides a process and task management platform that will enable secure digitalization across any organization. It interfaces with communications capabilities within Team on the Run to provide true comprehensive team management.

◗ Cloud-based platform that integrates with your internal systems, APIs, iOTs

◗ Compatible with a wide range of accessories and ruggedized phones for demanding field deployment

◗ Secure and encrypted document and workflow form management system, including approvals and date and time stamps

◗ Enables your team to access forms and manage processes from any location and any device

◗ Keep process management under control by controlling workflow and approval processes

◗ Includes NFC reading and writing, barcodes, iOT and BLE based solutions for smart processes integration

Dispatch Management

Team on the Run WebChat offers all the convenience of the mobile app on a web browser interface for users who prefer to work from laptop or desktop. The WebChat interface is also a comprehensive dispatching platform. Dispatchers can check the location of any user, or group of users, through a simple user interface; as well as monitor data such as location history, speed, or time spent idle. Using our powerful Web RTC based platform, a dispatcher can monitor multiple groups or channels of users and communicate with them via PTT, two way VoiP or instant message. Team on the Run also provides the ability for dispatchers to send files or even location data – which can help team members stay on track and avoid wasting valuable time searching for information or addresses.

* iPhone, iPad, MacBook and iOS are trademark of Apple Inc., registered in the U.S. and other countries.

DIGITAL TRANSFORMATION

Reporting and Analytics

T eam on the Run can compile comprehensive reports on activity, which can be useful for team leaders, managers or third party stakeholders. You can build reports of geolocation tracking data, location history, or even information compiled from third party devices such as NFC tags or vehicle trackers. Reports can be easily exported into common spreadsheet formats for convenient review.
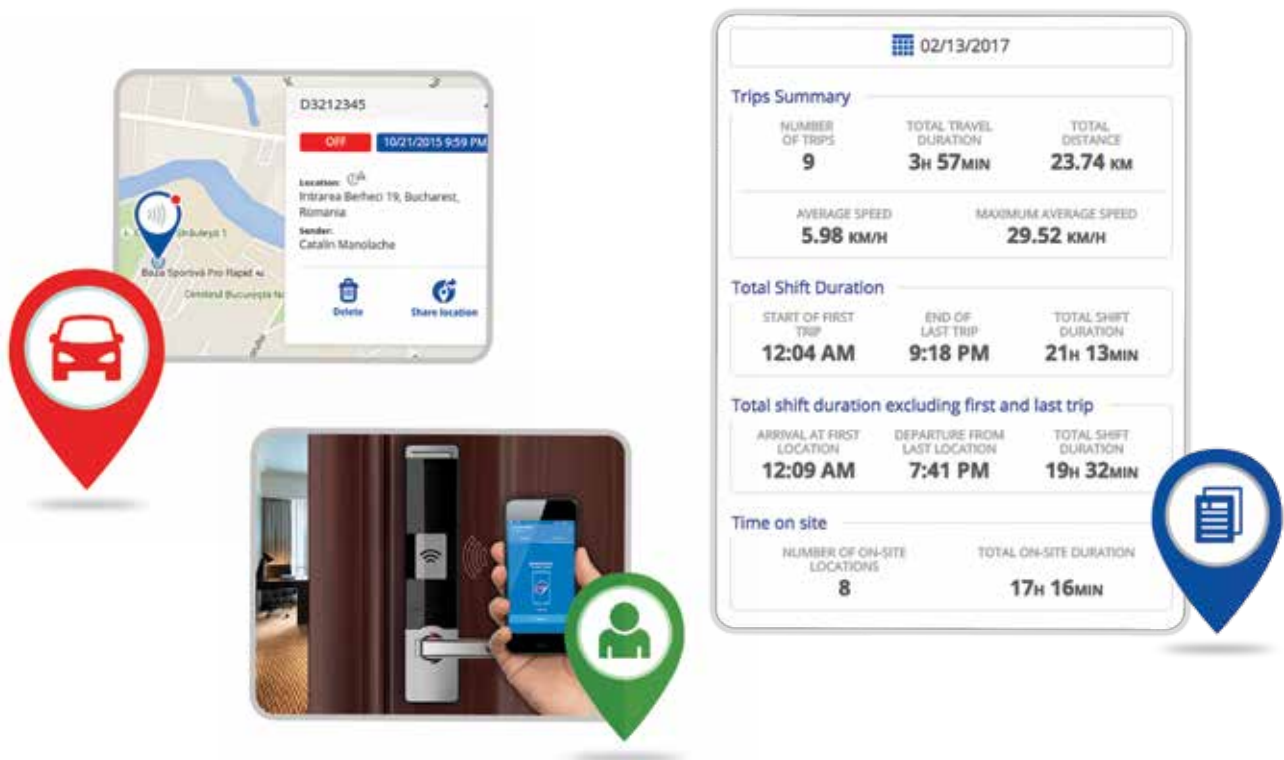
The Internet of Business Things

T he open API of Team on the Run is designed to allow easy interaction with external IT systems, accessories, and third-party devices.

◗ Compatible with many car kits, hands-free devices, other headsets, and PoC accessories

◗ Use of WebRTC based technology compatible with any WebRTC browser

◗ Integrated with external management systems

◗ Transport telematics and vehicle trackers

◗ Able to read and utilize NFC tags and Barcodes

◗ Communicate over 2/3/4G LTE or Wi-Fi
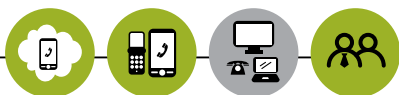
DIGITAL TRANSFORMATION

Team on Mission & Digital Transformation

D esigned for governments, mission critical systems operators, and public safety professionals: Team on Mission, allows for flexible process management, from anywhere, and across all devices. My Mission is the gateway to your organization's digital transformation with Team on Mission. My Mission helps you give your team the freedom to work effectively from any location.

T eam on Mission provides a secure, on-premises team management solution meeting both critical communications and digital transformation needs. Digital transformation aims to keep organization's data safe and secure, while providing a greater ease of use on how to manage critical mission processes. Team on Mission provides exactly that, while enhanced encryption with admin based controls helps prevent against leakage or eavesdropping via hacking or data theft.

BENEFITS OF TEAM ON MISSION

▶ Transition from legacy radio centric solution (PMR, Tetra, …) to 4G/LTE based systems for voice, PTT, and data

▶ Fully encrypted, running on premise, with complete administrative control and audit tracking

▶ Providing multiple types of communication on any type of terminal and any type of accessory

▶ Outstanding user experience boosts adoption and deployment

▶ Flexible enough to integrate with your information systems, sharing information in both directions and allowing to implement mission processes beyond communications

▶ Compliant with 3GPP standards and LTE network technologies

DIGITAL TRANSFORMATION

Team on Mission

Team on Mission is our answer to the challenges of communications and team management in today's public safety and mission critical environment. Team on Mission provides a secure, on-premises solution to provide Mission Critical Push-To-Talk and Mission Critical Data, tracking, Voice, video streaming, and dispatching for field teams. The solution is compatible with standard Android devices, including a wide choice of ruggedized phones. The platform, installed on central premises as well as on tactical bubbles, is fully decentralized and scalable; and can be virtualized on secured clouds.

Team on Mission is a 3GPP compliant solution, and can operate over any public or private 2/3/4G LTE networks; or a Tactical 4G LTE bubble. Another benefit is that Team on Mission enables seamless integration and communication with legacy PMR or TETRA systems via gateways. This allows you to phase out and replace legacy systems on your own terms, while maintaining communication capabilities.

My Mission – Forward thinking team management

My Mission provides a process and task management platform that will enable secure digitalization across your organization. It interfaces with MCPTT and Mission Critical Data communication capabilities within Team on Mission to provide a comprehensive operational command and control solution.

◗ Platform kept on site, that integrates with your Critical IT infrastructure
◗ Compatible with specific ruggedized tactical equipment
◗ Secure and encrypted mission management system, with comprehensive audit trail capabilities
◗ Manage and carry out organizational procedures on a need-to-know basis
◗ Maintain best practices in process management through controlling workflow and approval processes
◗ Outstanding User Experience boosts agility and teamwork on the field

DIGITAL TRANSFORMATION

Capabilities

Command Console and Tracking

◗ Track, manage, and communicate with entire team at once from a command console
◗ Review multiple location data, video feeds, MCPTT channels, and emergency alerts
◗ Intuitive and easy to use interface – with strong drill-down capabilities
◗ Share information and coordinate response between users in real time
◗ Integration of LTE Network advanced capabilities such as preemptive QoS and multicast

Emergency Alert Feature

◗ Automatically send alerts to a predefined group quickly and discreetly
◗ Geolocation data sent instantly along with alert message
◗ User can choose the level of alert, or allow the default alert to go out

Video Streaming

◗ Stream video through connected devices through the ToM platform
◗ High-definition video streaming up to 720p, bitrate 50/100 Kbps
◗ Dynamic bitrate control to adapt network situation
◗ Secure video transmission with SRTP encryption
◗ Review feeds from smartphone, tablet, or web Command Console

Key Technical Capabilities

◗ PPDR: Public Protection and Disaster Relief
◗ MCPTT: Mission Critical Push-To-Talk for public safety following 3GPP
◗ PoC: Push-To-Talk over Cellular replacement
◗ PCPS: Push-to-Communicate for Public Safety, OMA (Open Mobile Alliance) standard
◗ Tetra, Tetrapol and P25 gateways: narrowband LMR/PMR system transition to MCPTT over LTE
◗ MC Data: Mission Critical Data following 3GPP (text message and file transfer)
◗ MC Video: Mission Critical Video following 3GPP
◗ MCX following 3GPP for MC PTT, MC Data and MC Video
◗ eMBMS: enhanced Multimedia Broadcast/Multicast Service support and integration (feature enabling to multicast content on DL to save radio resources)
◗ SDS: short data service (text messaging service in Tetra) replacement

Hardware Connectivity

T eam on Mission is designed to be device agnostic and flexible. Supports ruggedized or professional Android smartphones or tablets for regular operations, or standard smartphones or tablets for covert operations. The platform integrates with many accessories such as body cameras, panic buttons, MCPTT buttons, speaker mics, and other accessories as required. Team on Mission can help your team take care of a variety of functions, all on one device with an outstanding user experience.
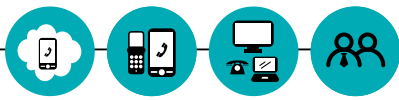
CHARGING

Convergent Charging and Billing for a Connected World

Emerging and developed markets are experiencing deep changes in the way subscribers consume telephony services. Whilst North-American market is turning prepaid, emerging markets see massive increase of smartphones users and related surge in mobile broadband traffic. Overall, decrease in voice and SMS volumes and prices, users expectations for real-time bundles activation along with everyday higher requirements for data-based mobile services drives operators investment in network and provides new requirement for fully convergent billing systems. Operators need flexible charging platforms able to evolve with this changing environment and enable increased marketing creativity in telephony plans definition.

Within StreamWIDE Charging product line, you will find a comprehensive set of carrier-grade real-time billing components to achieve deeper billing convergence, differentiate from the competition, improve prepaid and postpaid users loyalty and streamline your existing infrastructure:

◗ Online Charging System

◗ Voucher System

◗ Convergent Real-time Rating

◗ Account Information and Refill

◗ Calling cards

CHARGING

StreamWIDE Online Charging System rates and charges voice, SMS and data communications of more than 5 million customers in Morocco each day.

Online Charging System

Next Generation, Convergent, Real-Time Charging

StreamWIDE Online Charging System is a carrier grade, next generation, convergent, real-time charging solution for fixed and mobile operators who deliver convergent voice, SMS/Text, MMS/Multimedia and data services to mass-market, business, Machine-to-Machine Wi-Fi or call/internet shop prepaid users. The system includes a comprehensive set of modules embedded in an integrated solution that helps operators build attractive telephony offers, develop customer loyalty, promote high recharging rates, and analyze offer success rates and Return on Investment.
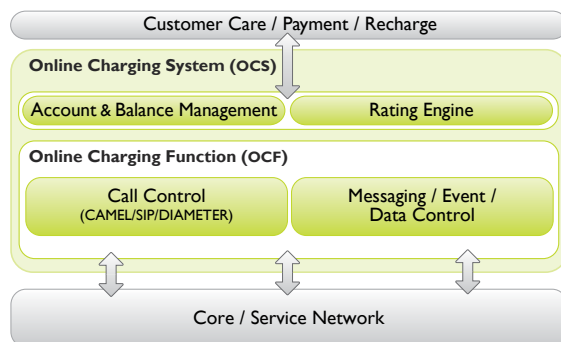
Convergent Online Charging
▶ SIP, DIAMETER or CAMEL-based call control Built-in SMS/Text, MMS/Multimedia, event and data mediation layers
▶ Diameter and Gy and Sy interface for LTE networks

Account and Balance Management
▶ Real-time account charging
▶ Unlimited balances
▶ Money transfer/street reselling

Rating and Promotions
▶ Real-time Voice, SMS/Text, MMS/Multimedia and data rating
▶ Rating by MO/MT, location, destination, time, resource, and balance
▶ Integration with DPI for advanced content charging segmentation
▶ Telescopic charging
▶ User-friendly rating GUI and promotions engine

### Connectivity
▶ USSD/SMS/Text customer care
▶ Portability database

SERVICE PROVIDER BENEFITS
▶ Replace or complement legacy IN systems with a next generation real-time convergent charging platform
▶ Achieve prepaid/postpaid, fixed/mobile, services and networks convergence
▶ Accelerate your marketing with highest rating engine flexibility and rich segmentation capabilities
▶ Open to new markets: M2M (Machine to Machine)

Voucher System

High-Performance and Secure Voucher Production

StreamWIDE Voucher System provides a carrier grade voucher management system that enables service providers to generate vouchers through batch processes, to export vouchers to external BSS systems, and to control physical voucher inventory. When integrated with our prepaid self-care IVR solution and/or the SMS/Text and USSD interfaces offered by our partners, this voucher system turns into a mandatory component for any billing platform that manages prepaid customers.
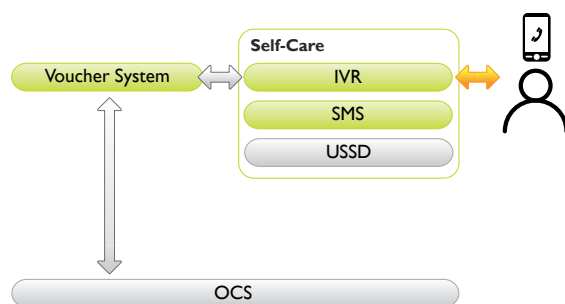
Support for Multiple Distribution Channels
◗ On-demand vouchers
◗ Printed scratch cards
◗ E-Vouchers

Maximized Security
◗ Private/public key encryption
◗ Customizable PIN lengths
◗ Encryption exporting
◗ Scratch card attempts monitoring
◗ Scratch card deletion monitoring
◗ Customizable money transfer rules

Customization and Flexibility
◗ Customizable validity time
◗ User-friendly web GUI

### Next-Gen E-Voucher Center
◗ Flexible distribution tree, unlimited levels, configurable restrictions
◗ Powerful commission rules, CoS & per distributor
◗ Multi-language brandable notifications
◗ USSD self-care, open APIs
◗ Per distributor real-time reporting
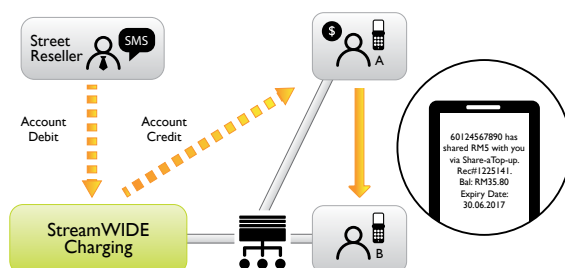
SERVICE PROVIDER BENEFITS

◗ Securely create vouchers for your prepaid activity
◗ Implement a cost-efficient solution with a software licensing model and standard hardware
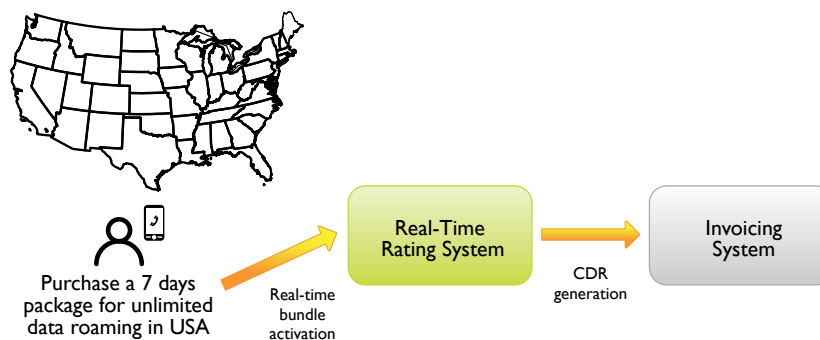◗ Integrate seamlessly with legacy online charging systems and self-care platforms
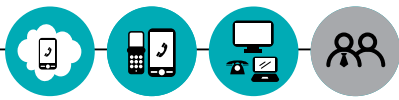
Convergent Real-time Rating

Real-Time Usage Rating for Postpaid subs

Implementing Convergent Real-time rating for postpaid subscribers brings a lot of benefits to Mobile Carriers such as enabling real-time network consumption monitoring, better fraud pattern detection, and accelerated business decisions. It also provides opportunities to enhance postpaid subscriber experience by enabling on the spot specific allowances purchase and activation, and delivery of advice of charge and real-time spending information that will prevent bill shock situations.

Real-Time Rating Features

◗ Service-neutral: data, event, and call based rating

◗ Real-time Rating of all calls, events and/or usage services obtained through multiple interfaces (SIP, Diameter, CAMEL, Radius, Web services…)

◗ Tiered pricing models: allows different rates for different service qualities

◗ Integration of fixed and mobile rating for residential and business customers

◗ Self-adjustable rating rules: support for frequent and rapid change of rate plans

◗ Easy creation of highly complex rate plans, including tiers, multiple keys, service bundles and discounts

Purchase a 7 days package for unlimited data roaming in USA

Real-time bundle activation

Real-Time Rating System

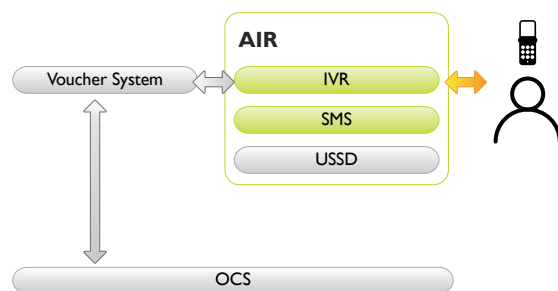CDR generation

Invoicing System

SERVICE PROVIDER BENEFITS

◗ Provide advice of charge and real-time expenses management to your postpaid customers
◗ Enable instant activation of specific allowances purchase for postpaid customers
◗ Accelerate business decisions by spotting real-time consumption patterns
◗ Prevent fraud by monitoring usage in real-time
◗ Speed up analytics integration and business decisions

Account Information and Refill

Next Generation Self-Care, Balance Inquiry, and Top-Up

StreamWIDE Account Information and Refill is a carrier grade, next generation, customer care solution that can be adapted to any voucher management system and online charging platform. Built on a cost-effective software architecture using standard hardware, this solution provides dramatic cost savings compared to legacy platforms.


Extended AIR Capabilities

◗ Multi-language deployments

◗ Real-time balance inquiries and credit consultations

◗ Real-time recharge by scratch card, e-Voucher or credit card

◗ Configurable service logic

◗ Configurable authentication logic

◗ Configurable account blocking thresholds

◗ Real-time fraud detection mechanisms

◗ Notifications (SMS, e-mail, http)

Interfaces

◗ Built-in IVR

◗ APIs for SMS, USSD, Web or Smartphone apps-based interfaces

Platform Management

◗ Access to a graphical IVR Service Creation Environment

◗ APIs to external OCS and VOMS systems

◗ CDR/EDR generation

◗ Statistics

SERVICE PROVIDER BENEFITS

◗ Replace your TDM-based self-care IVR and save on OPEX
◗ Optimize your ARPU with a reliable and secure interface for account refills
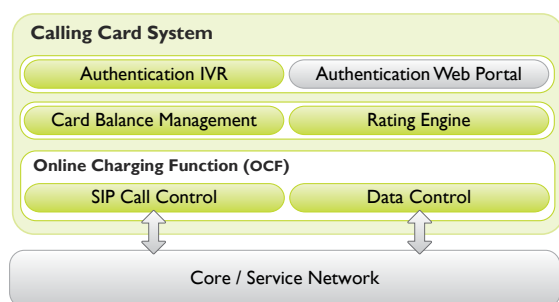◗ Benefit from StreamWIDE multichannel IVR/SMS/USSD/Smartphone app self-care bundle
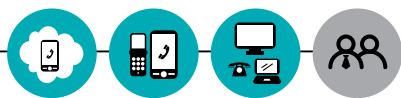
CHARGING

Calling Card System

A Real-Time Charging Solution for Prepaid Card Services

S treamWIDE Calling Card System is a carrier grade, next generation, real-time charging solution for service providers who deliver voice and data services to prepaid card users. The system includes an exhaustive set of call control, routing, rating, management, and billing modules bundled with a built-in vouchers and IVR platform. Enjoy the benefits of an authentic SIP-based solution and optimize your revenues in the prepaid segment.

Calling Card System
- Authentication IVR
- Authentication Web Portal
- Card Balance Management
- Rating Engine

Online Charging Function (OCF)
- SIP Call Control
- Data Control

Core / Service Network

Call Control and Routing
◗ Built-in SIP-based call control

◗ Standard call routing features

Rating Engine
◗ Rating according to location, destination, duration, and/or time

◗ Telescopic charging support

◗ Web-based, user-friendly rating GUI

◗ Scheduled, calendar-based discounts

Charging
◗ Real-time account debiting

◗ Profile management

◗ Multiple distribution levels

Authentication Interfaces
◗ Built-in IVR interface

◗ Web services-based connectivity enabling data portal integration

Data Mediation
◗ Data mediation layer

◗ RADIUS and Diameter interfaces: 3GPP TS 32.260/32.270/32.274/32.299

SERVICE PROVIDER BENEFITS

◗ Swap your legacy calling card system for a next generation platform and save on OPEX
◗ Develop new business with prepaid cards that support both data and calling services
◗ Go to market quickly with an off-the-shelf, integrated, self-provisioned platform
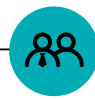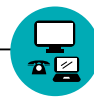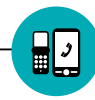
INTERCONNECTION

Streamline your network usage

Based on our expertise and track record in deploying value-added services, this product line offers a network-oriented solution set that is complementary to the consumer-oriented offerings in the other lines. Take advantage of the broad capabilities of the products in this line to streamline your network usage (specifically as it relates to VAS), thus optimizing your investment by increasing ARPU and reducing CAPEX.

StreamWIDE Interconnection product line includes the following services:

▶ **Interactive Routing,** a Virtual Contact Center solution providing IVR, Automatic Call Distribution (ACD), number translation, and call agent management capabilities adapted to all sizes of contact centers, from home-based distributed models to larger traditional call centers

▶ **Service Locator,** a Cloud-compliant solution for facilitating VAS deployments

Interactive Routing

Next Generation Virtual Contact Center Solution
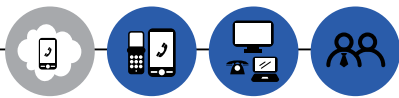
Service providers operating in the Business-to-Business market are encountering a growing number of requests to deploy simple and cost-efficient small and medium-sized customer care or hotline services. Their ability to provide these services, in addition to renting premium telephone numbers, can be a key asset to preserve profitability of their operations. With its native SIP connectivity, functional flexibility, and operations-friendly interfaces, StreamWIDE Interactive Routing is a Virtual Contact Center Solution which aims at replacing legacy IN-based non-Geographical Routing Solutions and ACD systems whose technology and business models no longer match market expectations.
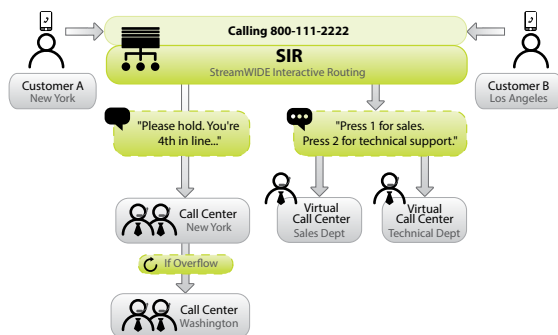
Automatic Call Distribution

◗ 8XX Number routing and management

◗ Overflow management

◗ Integrated fallback mechanisms

◗ Queue management/traffic parking

◗ Network based virtual traffic distribution (calendar, location or IVR-based)

Large set of IVR capabilities

◗ Basic Audio & Video IVR functions: prompt & collect DTMF, transfer, queue list …

◗ Advanced IVR: database interactions, logical functions, http requests

◗ Specialized modules for prepaid top-up applications

Service Management

◗ Support for multiple classes of services

◗ Web-based visual routing plans configuration

◗ Web services for provisioning

◗ Multi-tenant system/Resellers support

◗ Extensive statistics reports

◗ CDR generation

SERVICE PROVIDER BENEFITS

◗ Streamline costs by replacing IN-based legacy 8XX non geographical routing systems
◗ Benefit from an ideal solution for mid-sized customer care and virtual contact centers
◗ Centrally manage advanced non geographical routing on NGN and IMS network

INTERCONNECTION

Service Locator

A Cloud-Compliant Solution for Facilitating VAS Deployments

With an ever-growing demand for the launch of new services, increased quality, and reduced time-to-market, operators need application providers to supply tools to accelerate deployments and manage growth seamlessly while securing the highest quality and availability. StreamWIDE Service Locator, which can be integrated with a StreamWIDE or third-party value-added service platform, is a routing system that distributes traffic between smaller application nodes, resulting in substantial benefits in ease of operations, reliability, and scalability.
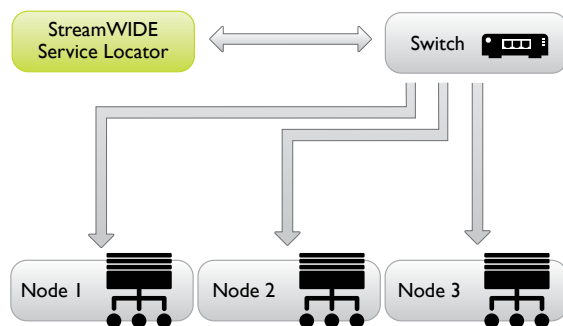
Intelligent Traffic Routing
◗ User location based routing between multiple platforms

◗ Transparent HTTP and SIP re–routing

◗ Diameter proxy

◗ Geographical distribution of traffic between areas

◗ Flexibility in defining customized rules for traffic management redirection and fail-over

◗ User-friendly web administration interface

◗ Load balancing & support for geographical resiliency

Centralized Management of Multiple Nodes
◗ Single point of provisioning

Interfaces
◗ Native connectivity with StreamWIDE Messaging & StreamWIDE Charging

◗ Web services-driven connectivity

Cloud Architectures
◗ Traffic distribution between virtualized machines

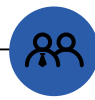◗ Platform scalability and flexibility within the cloud

SERVICE PROVIDER BENEFITS
◗ Take advantage of an ideal solution for deploying VAS in cloud computing environments
◗ Manage platform growth and migration issues
◗ Provide a unique entry point for provisioning
◗ Implement geographical resiliency
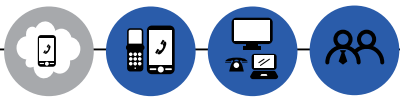
SERVICE CREATION ENVIRONMENT

Create unique, customized solutions using the agility of StreamWIDE technology

Operators, Online Service providers and system integrators often require customized offerings, they need to develop trials and launch them in a matter of weeks. They also want to leverage existing standards and open-source languages. A unique solution to these demands is StreamWIDE Next Generation Service Creation Environment.

With StreamWIDE Factory, an in-depth, exhaustive and agile development environment, developers can combine the proven capabilities of StreamWIDE technology with the freedom of in-house development to create, trial, and launch custom built multimedia applications.

Benefit from increased security, cost savings and ease of use. Ask about our Web RTC capabilities.

StreamWIDE Factory leverages StreamWIDE internal media processing capabilities to support all media flow types (SMS/text, audio, video, fax) including conferencing, prompting and collecting of digits, playing announcements, and recording of any media flow type.
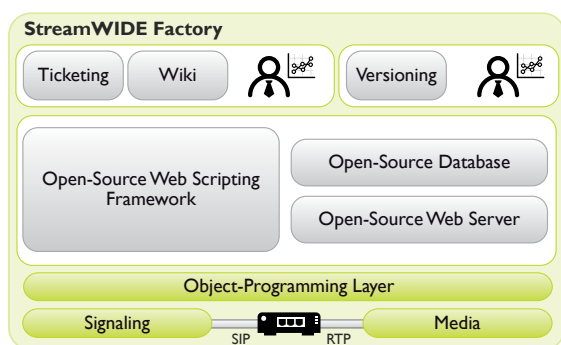
SCE
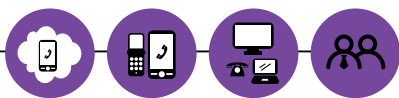
A Tier 1 US mobile provider develops and trials an innovative fixed-mobile convergence solution, leveraging StreamWIDE Factory to design and test SIP call flows on their IMS core network.

Factory

The Essential One-Stop Shop
for SIP based Application Development

StreamWIDE Factory is an integrated service creation environment designed to assist integrators and service providers in the creation and operation of their value-added service applications. By blending StreamWIDE application server, media server, and object-oriented programming layer technology with an open-source web environment and reporting, documenting, and support tools, it is the essential starting point for your applications of tomorrow.

StreamWIDE Factory

Ticketing · Wiki · Versioning

Open-Source Web Scripting Framework

Open-Source Database

Open-Source Web Server

Object-Programming Layer

Signaling — SIP — RTP — Media

Development server
◗ Source control and management

◗ Issue reporting and management

◗ Native Trac wiki for documentation

◗ Comprehensive testing tools

Application Server
◗ IMS-compliant SIP application server

◗ Object-oriented scripting

◗ RTP proxy/RTSP support

◗ ASR/TTS control using MRCP

◗ Diameter client/server resources

◗ SMS/Text, MMS/Multimedia, gateway functions

◗ CDR generation and event-based billing

◗ Text and multimedia capabilities for IMS and RCS services

Embedded Media Server
◗ Many supported media/audio formats

◗ Audio stream transcoding

◗ DTMF tones

◗ Conferencing support

SERVICE PROVIDER BENEFITS

◗ Reduce time to market by developing voice and video applications at the speed of web publishing

◗ Increase ARPU by seamlessly combining voice, video, and web services to create premium applications

◗ Optimize profitability with a fully integrated, software-based environment that leverages the power of open source technology
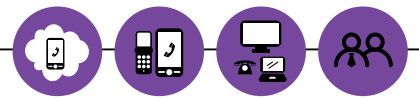
TECHNICAL APPENDIX

StreamWIDE technology includes in-house development and support of a variety of protocols, codecs and formats and complies with the RFCs listed below.

For other related protocols, please refer to specific product pages.

SIGNALING, CALL CONTROL & AAA

Standard SIP
RADIUS
Diameter Credit Control:
3GPP TS 32.260/32.270/32.274/32.299
Diameter Rx: 3GPP TS 29.214
CAMEL phase 3-4
MAP

REQUEST FOR COMMENTS (RFC)S & 3GPP TECHNICAL SPECIFICATIONS (TS)

RFC 2190, 2326, 2327, 2806, 2833, 3261, 3262, 3263, 3264, 3265, 3311, 3323, 3324, 3325, 3326, 3420, 3428, 3455, 3515, 3550, 3551, 3665, 3680, 3725, 3824, 3842, 3856, 4317, 4463, 4733, 4566
TS 24.229

CODECS

G711A
G711U
G729A
G729B
G722
G723.1
G726
AMR
OPUS
AMR-WB
H263
MPEG4
H264
VP8
VP9
T38

MEDIA STORAGE FORMATS

A-LAW (.al)
U-LAW (.au)
WAV (.wav)
OPUS
3GP (.3gp)
IMAGES (.jpg, .gif, .bmp, .png, .xpm)
Proprietary Streamwide Multitrack (.stw)

VIDEO FORMATS

SQCIF
QCIF
CIF
4CIF
720HD
VGA
QVGA

SHORT MESSAGES/IM

SMPP 3.3/3.4
UCP/EMI 3.5/4.0
HTTP
SIP
MSRP
MRCP

EMAIL

IMAP
SMTP

WEB-SERVICES

XML-RPC
JSON-RPC
SOAP
HTTP