

SchlumbergerSema

enabling growth in
your prepaid markets



Prepaid IN

prepaid INtelligent network

Enabling growth in your prepaid markets

With explosive growth in the prepaid sector set to continue as the next generation services arrive to the market, the potential for new revenue streams is enormous. The opportunities to increase ARPU are there and waiting - if you're positioned to take advantage of them. That means having an infrastructure in place that will support creative tariff structures and new services, which leverage 2.5 and 3G capabilities.

To succeed, you'll need flexible, scalable and high capacity platforms. You'll need to find ways to maintain or reduce your operating costs while increasing ARPU. You'll have to deploy the advanced value-added prepaid services your customers want, like m-commerce, m-entertainment or self-care, faster than the competition. And because you'll need to maximize your return on every element of the prepaid infrastructure, your chosen technologies must be future-proof.

This is why we developed SchlumbergerSema Prepaid IN: to provide a powerful, flexible infrastructure backbone that will enable and support your growth into the 3G future.

Prepaid IN is the core of our prepaid solutions portfolio. It is an Intelligent Network platform with the functionality and flexibility to support multi-network-based services in 2G, 2.5G and 3G environments, and a convergent rating engine that

supports the richness of a postpaid tariff plan in real-time. This combination of multiple enhanced services and convergent rating engine empowers you to manage high and growing volumes of prepaid subscribers effectively, while keeping cost of ownership down.

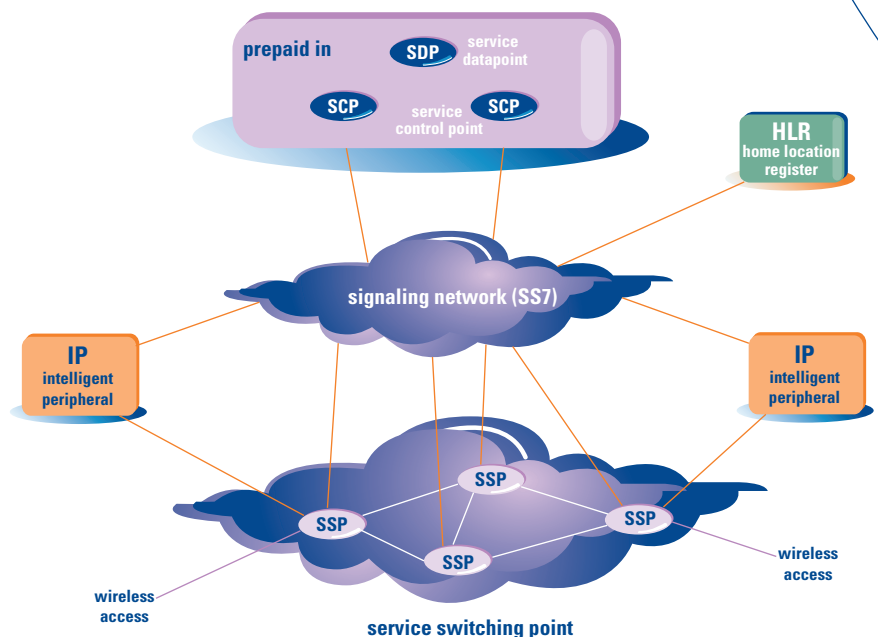
Our Prepaid IN solution delivers major business benefits:

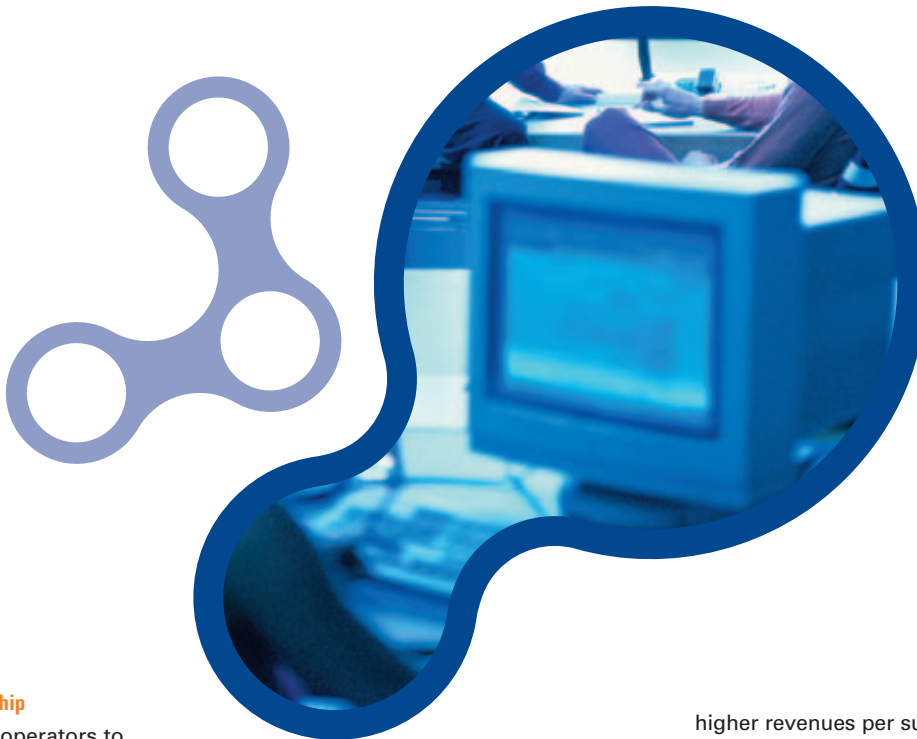
Mitigating risk

As you and your competitors move to consolidate prepaid and postpaid customers onto a single platform, your convergent rating engine becomes a crucial differentiator, as it needs to

support different levels of risk depending on a subscriber's credit worthiness, outstanding balance and the type of usage. We provide the most advanced convergent rating engine on the market that supports real-time rating, hot rating, and post-call rating scenarios. Balance-based charging gives you the critical ability to offer subscribers all the choice they need, with the highest levels of control.

intelligent network solution from SchlumbergerSema





Cutting cost of ownership

Prepaid IN enables operators to reduce the number of systems needed to support higher numbers of subscribers, ensuring all desired scalability that the service node solutions lack. Seamless integration of the convergent rating engine with support systems for administration, provisioning, customer care, voucher and refill management means lower integration costs and faster time to market, as operators are only dealing with one vendor for all their needs.

Reducing migration risk

Operators using service node-based prepaid services need to implement IN technology to cope with growing

subscriber numbers and the increased demand it imposes on legacy networks.

The SchlumbergerSema unique systems integration methodology enables seamless migration for operators to Prepaid IN with no disruption to existing services, and accelerates their transition to the new technologies in the converged pre- / -postpaid environments.

Leveraging your investment

Our Prepaid IN solution enables operators to deploy advanced value-added services – for example location-based services - that subscribers are ready to pay for faster than competition, which translates into

higher revenues per subscriber for operators and helps them recover their infrastructure investments sooner.

SchlumbergerSema Prepaid IN solution has the high flexibility and high performance you need to build multi-network based services and applications in 2G, 2.5G and 3G environments. It delivers high availability with no single point of failure, for maximum subscriber satisfaction and revenue. It is built for growth and choice:

Supports up to 10 million subscribers with up to 7 million calls per hour.

Delivers lower cost per subscriber with centralization of databases and transactions processing.

Enables seamless domestic and international roaming in heterogeneous partners network environment.

Provides full support for voice services with flexible real-time rating engine and multiple rate.

SchlumbergerSema Prepaid IN solution has a highly scalable architecture with high signalling capacity. It includes network interfaces, call control and service logic, and is engineered around open standards-based technologies. Running on Compaq ALPHA servers with Tru64 UNIX OSS and memory-resident database, SchlumbergerSema Prepaid IN demonstrates 99.999% availability and high performance. Software architecture allows for multiple applications on a single platform, from prepaid calling with true real-time rating engine for CAMEL and IS-826 environments, to location-based services. IP network element provides for in-call voice announcements.

Prepaid services

SchlumbergerSema Prepaid IN solution enables a range of prepaid services, such as:

- Call rating and real-time tear down for CAMEL and IS-826
- Redirect to customer care or IVR
- Roaming rate determination on originating and terminating calls

Roaming options

Prepaid IN supports multiple roaming scenarios:

- Mobile-originated: in a IS-826 or CAMEL capable visited network the serving MSC queries the Prepaid IN platform in the home network for subscriber authorization, available balance and processing direction
- Mobile-terminated: the serving MSC queries the Prepaid IN platform in the home network for subscriber authorization, available balance and processing direction
- In a non-capable CAMEL 2+ visited network roamer uses USSD callback to originate calls.

Maximizing agility in the 3G future

When you invest in a SchlumbergerSema Prepaid IN system, you get all the benefits of a solution which is:

Flexible

- While enabling operators to integrate multi-vendor hardware and networks to deliver seamless services, it also offers a choice between components and complete solutions



Future-proof

- Platform's scalability means it can adapt to operators' needs as market factors and industry standards dictate

Reliable

- Prepaid IN is designed to benefit from high availability and redundancy, with full data mirroring and disaster and recovery capabilities

Part of INService

- SchlumbergerSema has consistently delivered industry's most innovative prepaid and postpaid applications since 1985. Today we meet every prepaid need, delivering the most complete prepaid portfolio in the market, with solutions ranging from call control to customer interface through rating, balance management and administration tools. Operators also benefit from our extensive systems integration capability, which allows them to significantly cut implementation and maintenance costs
- As SchlumbergerSema has both prepaid and postpaid solutions in its portfolio, it enjoys unique domain expertise in both those markets and is the vendor of choice for operators looking to deploy converged billing systems ahead of competition. Whether you need just one piece of

our offering to fit into legacy environment, or a true end-to-end system, SchlumbergerSema puts you in control of your future, providing the highest level of system flexibility and return on investment.

More proven prepaid solutions from SchlumbergerSema:

- PreView
Provides prepaid administration and customer care for lifecycle management and recharge management.
- IPRS
A payment and refill server providing rich functionality in the management of prepaid recharges and refills.
- IP with USSD Gateway
Network element that enables in-call voice announcements as well as provides a USSD callback services to facilitate seamless roaming across non-CAMEL 2-compliant networks.

* Mark of Schlumberger