

Why SS8 for LI



SS8 is the recognized leader in the North American lawful intercept market and a worldwide provider of regulatory compliant solutions. We offer comprehensive solutions that cover all three components of the lawful intercept (LI) architecture: access, delivery and collection. We have deployed proven lawful intercept solutions in the networks of the top wireline, wireless and cable carriers and offer a solution that serves over 10,000 law enforcement agents daily.

With the flexibility of the Xcipio™ platform, we have also created non-traditional solutions that include satellite voice carriers, satellite ISPs and WIFI hotspots. As a leader in this field, SS8 is currently providing intercept capabilities for over 110 million subscriber lines in the United States alone.

There are many reasons that SS8 has attained this leadership position in lawful intercept:

- » Comprehensive company focus on the lawful intercept market
- » Direct experience implementing and supporting large service provider deployments
- » Proven, standards-based and cost-effective scalable architecture
- » Best of breed components with full life cycle support
- » Ability to tailor solutions to specific requirements of each service provider

An integral part of SS8 strategy to offer a best of breed solution is its partnership with Pen-Link. Pen-Link has been offering industry leading collection and analysis solutions for close to 20 years and has now joined SS8 to offer complete, end-to-end LI solutions.

**COMPREHENSIVE COMPANY
FOCUS ON LAWFUL INTERCEPT**

The lawful intercept field is driven by a number of key stakeholders: Federal and local government, law enforcement agencies (LEAs), leading communications carriers, and a mixed group of technology vendors. There are very few individuals or commercial organizations that have experience in all facets of this complex field. SS8 has emerged as a leader not only due to our expertise in lawful intercept technology but also for the role we have played in the standards bodies and in supporting key stakeholders. SS8 lawful intercept management team is active at standards

bodies, in industry forums, and is recognized across the industry for advancing industry awareness of emerging standards and issues.

COMPLETE LAWFUL INTERCEPT SOLUTION



SS8 is not only a leader in deployments but has also established a thought leadership role in the lawful intercept community by anticipating the needs of the market ahead of actual deployment.

Examples of this include:

- » First J-STD-025 compliant solution in 1999
- » The first VoIP solution completed in 2000
- » Certified ISP intercept solution in 2001
- » The first VoIP solution for the PacketCable™ environment in 2002
- » The first working solution with Cisco's SII technology in 2003
- » Early introduction of intercept solutions for WiFi in 2004
- » Push-to-Talk over Cellular in 2004
- » First J-STD-025B compliant wireless data solution in 2004
- » First IMS-based lawful intercept solution using T1.678 in 2005

DIRECT EXPERIENCE IMPLEMENTING & SUPPORTING SERVICE PROVIDER DEPLOYMENTS

SS8 customers include both carriers (tier 1 wireless, major wireline, tier 1 cable operators for VoIP), as well as large network equipment vendors who have embedded our lawful intercept technology into their own LI solutions. SS8 professional services team

has implemented many nationwide deployments and utilizes teams of field personnel to rapidly and efficiently roll-out solutions that have scaled to more than 30 sites.

PROVEN, STANDARD-BASED & COST-EFFECTIVE SCALABLE ARCHITECTURE FOR ACCESS & DELIVERY

Xcipio is built on SS8's carrier-grade SS7 Signaling product; a product set which has been deployed in hundreds of carrier SS7 networks around the world. The requirements for bulletproof functionality and ultra high reliability for SS7 signaling in the PSTN are seldom exceeded. Because of this heritage, the SS8 Xcipio solution set has always been considered carrier-grade.

In addition, SS8 included several other key attributes in our Xcipio design:

- » Real-time processing
- » Modular design to enhance scalability and quick time to market for new features
- » Operation in a central office
- » Support for different network elements (routers, switches, HLRs etc.)
- » Easily adapted support for emerging technologies
- » Support for different LEA interfaces
- » Rapid development of new interfaces

Xcipio is scalable, easily adapted to new services and network elements, and is based on a modular design that assembles logical components in layers much like the Open System Interconnection (OSI) 7-layer networking model - a fundamental reference point in the communications industry. The platform provides provisioning of intercepts to a variety of intercept access points, management of intercept identification data and content, and delivery of intercepted data

and content to an end user collection function. In short, Xcipio provides all the building blocks to build a LI solution that ranges from a small, single switch, single location solution a large distributed solution supporting hundreds of network elements and thousands of intercepts.

Xcipio's versatility and stability is a product of our commitment to open standards: the underlying architecture is based on open standards and is deployed using commercial off-the-shelf (COTS) components, such as Sun Unix-based platforms.

Xcipio's unique architecture allows service providers to grow, add new equipment and diversify applications/ service offerings without having to add new hardware to the solution. The architecture is based on a software mechanism that allows new interfaces and additional intercepts to be supported through simple software upgrades. Increases in throughput capacity may call for additional servers, which the core platform can easily accommodate. But the fundamental act of adding new services, applications or technology interfaces does not require new hardware.

READY FOR BROADBAND

SS8 is established as the leading provider of lawful intercept solutions for wireless, wireless data and VoIP solutions. Through investments in new technology and resources, we now stand poised to also lead LI compliance for the emerging broadband market. One of the keys to supporting the broadband market is the ability to identify, parse and isolate the various IP protocols being utilized by broadband carriers and their subscribers. Driving SS8 growth in market position in this area is the addition of the Xcipio AXS-2500 probe to our LI portfolio.

The Xcipio AXS-2500 is a purpose built technology set that surpasses all other probe solutions on the market. It provides the ability to intercept targeted communications streams within the vast current of traffic flowing through a broadband network.

The AXS-2500 is a uniquely scalable solution, which minimizes both up-front investment and operating costs. Its modular hardware and software provide scalability from 10Mbps to 10Gbps in a common chassis, with the flexibility to filter at the ATM, Ethernet and IP layers and all the way up to user applications (e.g. email, VoIP, chat etc.). Where lawfully permitted powerful string search capability can be enabled, allowing free-form parsing of traffic streams in excess of 200Mbps.

The AXS-2500 reduces entry cost as all data rates are supported on the same processor blade, with scaling accomplished by applying new interface line cards and the addition of processor blades. This allows the same chassis to scale from 8x OC-3c, to 4x GE, 2x OC-48c and 1xOC-192c. The modular software allows remote upgrade of a baseline system with a single filter type (e.g. ATM or IP) to a fully loaded system with a full range of application filters.

READY FOR THE LEA

SS8 is a total LI solution provider, providing all three components of the LI architecture. And as a leader in this market we provide a collection function (CF) with the best analytical tool set available today. It easily scales from smaller configurations that accommodate local LEA organizations to very large implementations that support nationwide deployments at the national level.

The Pen-Link tool set provides:

- » Comprehensive link charts to correlate investigative data
- » GIS mapping for identifying locations of targets
- » Analysis graphics for timelines and statistical charting
- » Automatic forwarding of intercepted traffic to remote analysts
- » Single unified presentation format for IP data and traditional voice
- » Call recording for TDM, VoIP and PTT communications
- » Centralized storage of call data and content
- » Multi-seat networked capabilities for simultaneous analysis by multiple personnel
- » Portable solutions or centralized rack mount systems

SUMMARY

Today's electronic surveillance places rigorous, urgent but different demands on carriers and law enforcement agencies. Carriers need to be able to quickly and efficiently identify a target in their network, isolate that target's traffic and get it to law enforcement in a standard, reliable way. However, law enforcement needs to perform detailed analysis of this information in order to build the story of the target's activities and

interactions. Both of these diverse but intertwined needs are solved with a solution from SS8.

In order to meet this range of needs, SS8 has put together a team with a core competence that is second to none, a heritage that is undeniable and a solution set that is unparalleled. SS8 is the safe choice for carriers and LEAs the world over. SS8 is the choice that will leave you confident and comfortable that your needs will be identified and met, your obligations fulfilled, and a solution deployed that is tailored specifically to your own network requirements.

SS8 lawful intercept business has grown successfully and steadily over the last 12 years, from our beginnings as a wireline only intercept solution provider, to the number one provider in North America for multiple standards and technologies, to a worldwide force that has brought together the best access, delivery and collection technologies available. Coupled with the industry's foremost LI expertise, stand-out engineering, professional services and management teams and it is obvious why SS8 is the optimum choice for complete LI solutions.



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