SS8 ®

Xcipio

HIGH SPEED AND REAL TIME MEDIATION SOLUTION

Xcipio is a robust mediation platform that excels in today's high-speed networks and is designed for real-time communication mediation supporting several network architectures and complex call flows. Having been deployed around the world, Xcipio excels in serving the needs of communication providers, governments and law enforcement agencies.

COMPLIANT, SCALABLE & POWERFUL MEDIATION SYSTEM

Providing industry leading scalability for 5G and enhanced 4G, Xcipio supports thousands of network interfaces simultaneously and over 10 Gbps per system throughput. As a growing number of Communication Service Providers (CSPs) offer quad-play bundles, Xcipio's powerful architecture is able to support new technologies, network equipment interfaces and delivery standards, all on a single mediation platform.

Additionally, Xcipio assures CSPs achieve and maintain regulatory compliance and adhere to industry standards including ETSI, 3GPP. CALEA, PacketCable, ATIS, NHIS, and additional regional requirements.

To accommodate the varying needs of CSPs, Xcipio offers flexible deployment options. It can be deployed in-network on COTS hardware, in the cloud, and in virtual machine-based environments.

PASSIVE & ACTIVE

Xcipio readily supports active, passive and hybrid mediation configurations. An active configuration leverages a carrier's existing network elements (switches, routers, gateways) via integration with Point of Interception (POI). A passive configuration utilizes strategically placed passive probes (SS8 Sensors) to capture a target's traffic. A hybrid solution combines both active and passive models to satisfy networks with unique combinations of intercept capabilities, network elements or geographic diversity.

EXTRACT, COLLECT & DISTRIBUTE DATA

Supports in-network, virtual or cloud deployment options

Location Services solution designed for Lawful Intelligence

Supports several network architectures, communication services and complex call flows

Supports 5G, 4G, VoLTE, MCPTT, IoT, Broadband IP, and other legacy services

Provides complete summarization records for Packet Data

Scales to 10+Gbps system capacity
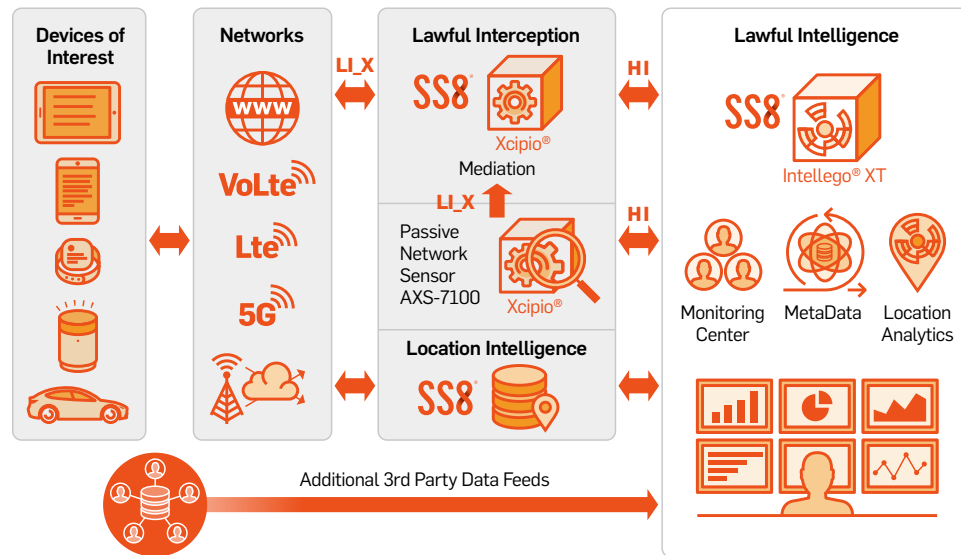
HOW IT WORKS

Xcipio is used by CSPs and Law Enforcement Agencies (LEAs) to extract, collect and then distribute data associated with a subject of interest. To extract the information, Xcipio controls the initiation of all intercepts via active interfaces to POIs. In cases where POI based interception is not possible or desired, Xcipio uses a passive model using SS8 sensors. POIs are provisioned with target identifiers which then pass the captured traffic on to Xcipio. Xcipio mediates the call related information (IRI) and content of communication (CC) for subjects' traffic and passes it to an LEA, based on country specific regulatory standards. Law Enforcement Monitoring Centers store and analyze the captured data, assisting law enforcement in their investigations.

Xcipio uses two sets of interfaces—X Interfaces (LI_X) and Handover Interfaces (HI)—to mediate information flow from the service provider to law enforcement. The X interfaces are generally proprietary and describe the exchange of information between the POIs and Xcipio while the HI are based on industry standards and describe how the information is delivered from Xcipio to the Monitoring Center.

SECURITY

Due to the sensitivity associated with mediation, information use and access must be tightly controlled. Xcipio has integrated security protocols that guard access and provide accountability. A comprehensive set of role-based permissions provides tight control over user access. Additional protective measures include encryption of information and removal of sensitive data from generally accessible reports like system alarms, warnings and error messages. The security also provides auditing mechanisms to track a user's activity and ensure proper accountability.

ABOUT SS8

SS8, a network intelligence company, provides solutions to help customers quickly identify, track, and investigate devices and subjects of interest. Headquartered in Silicon Valley with sales and support offices in the U.S. and UK, SS8 has deployments in more than 30 countries supporting networks with nearly 1 billion subscribers. For more information, visit www.SS8.com.

SS8 | The Trusted Choice for Lawful Intelligence Solutions

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