S9D

Gradkell Systems, Inc.

Encrypted Programmable Telecommunications Interface

The S9D secure encrypted telecommunications interface (EPTI) product is the only programmable system to allow encrypted receipt and delivery of SMS and MMS messages and routing of voice calls across all US carriers. We also provide the DBsign Data Security Suite®, a practical digital security system and the only 15408 compliant CAC enabled drop-in digital signature component. The combination of the S9D programmable telecommunications interface and the DBsign Data Security Suite® creates an unmatched secure programmable communications interface to all US mobile and landline carriers.

KEY FEATURES

- Supports voice SMS text, MMS picture texts, and voice delivery and receipt across all US carriers.
- Provides local telecom phone interface number for support of inbound calls and texts.
- Supports pre-programmable call and text message routing.
- Supports real-time routing of voice calls with the ability to modify or interrupt calls.
- Supports unlimited simultaneous calls and texts to the same phone number.
- Supports digital signing of all requests and data queries for increased security.
- Supports AES encryption of all command and data transmission including photos.
- Supports recording of voice calls.
- Supports multi-party voice calls.
- Supports push or pull interface for use with highly secure system.

Introduction to S9D-EPTI

S9D Encrypted Programmable Telecommunications Interface enables customers to quickly deploy telecom routing and endpoint solutions by centrally managing the interface to the hundreds of US phone carriers and creating a single securely encrypted command interface and inbound communication point using 10 digit local phone numbers in any available US area code. The full-stack, security-hardened software appliance uses AES encryption and digital signing technology for security, availability, and scalability.
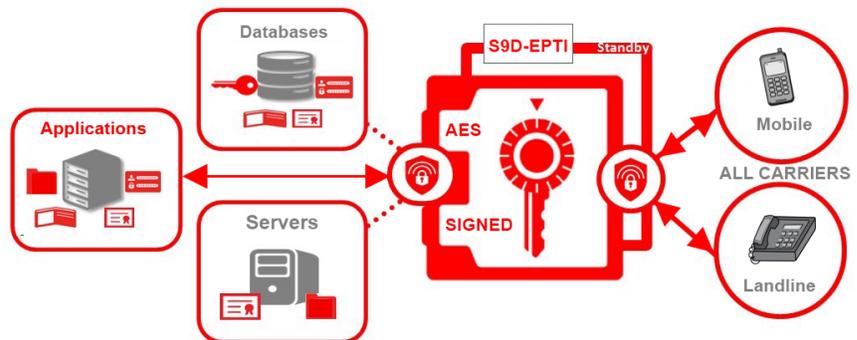

Figure. 1

Centrally Managed Local Interfaces

Telecom solutions are often widely distributed across large geographic regions. The S9D-EPTI allows large scale telecommunications applications to centrally manage the local phone interfaces used by callers. Each local 10 digit phone interface can be managed and programmed from within the client's centralized or distributed applications using our AES encrypted and digitally signed command set. Client applications have immediate secure access to call data record, text message, pictures, and voice recording all manageable by the client application.

GRADKELL S9D-EPTI

ABOUT GRADKELL

For 25 years Gradkell Systems has been a leader in providing security products and software development services to Department of Defense and other government agencies. We help our clients solve complex business, security, and telecommunications challenges using both thought process and technology solutions.

We have provided level 3 in the Capability Maturity Model Integration (CMMI) for large Department of Defense customers. With DBsign®, we currently provide the only ISO/IEC 15408 compliant CAC drop in CAC enabling drop-in digital signature component.

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Inbound Call Processing

Calls received on local interface numbers can be programmatically defined to perform immediate call routing functions and enable additional features such as call recording and automatic conference call generation. Live call data can be immediately provided to client applications and live calls managed in progress. The S9D-EPTI support push and rapid-poll notification of events.

Call Initiation and Routing

S9D-EPTI provides client applications with the capability to start, route, and manage outbound calls using encrypted and digitally signed instructions. The interface supports multi-party calls, automated calls that play a recorded file, and direct-to-voicemail calling.

SMS/MMS Messaging

The S9D-EPTI support inbound and outbound text and multimedia (picture) messaging across all US carriers. The interface automatically addresses carrier restrictions by automatically resizing images to meet the exact specification of the receiving carrier. The powerful command interface of S9D allows applications to quickly send and receive SMS and MMS message from within the application and makes large database applications possible.

AES Encryption, Digital Signing, and No Artifacts.

In order to provide the most secure telecommunications network possible, the interface supports AES encryption and digital signing of all interface commands and transmission of data from the interface to your application. Each command can be encrypted by your application prior to transmission ensuring the highest level of security. S9D leaves no artifacts of the routing actions, messages sent or received, or any media sent or received on any transmission equipment. For secure government systems that do not support any external access from other networks, S9D provides a "rapid-poll" interface allowing secure systems to make outbound only connections to the system. *Note: Call data records are maintained by carrier networks as required by the FCC.*   For more information about Gradkell S9D-EPTI, visit gradkell.com or call 1-866-GRADKELL (866-472-3535)