Talking SIP™

The Voice of the Next-Generation Network™

Key Features

Standards Based. The Talking SIP™ Web Service API (WSA) is based on standard protocols and a RESTful (representational state transfer) interface and the JSON (Javascript Object Notation) lightweight data-interchange format for easy integration.

Extensible. The Talking SIP™ Web Service API provides complete and high-level access to the Talking SIP™ TEL_DATA database for account, rate and system management, with operations that encapsulate complex business logic into simple interfaces. In addition, the Web Service API provides secure and open access to any custom tables and/or stored procedures a service provider may add to the system.

Scalable. Since the Web Service API was developed around the REST architectural style, which was developed in parallel with HTTP/1.1, it is extremely reliable, performant and scalable to meet the most demanding requirements of any next-generation service provider or carrier.

Secure. The Talking SIP™ Web Service API has been designed around SSL to provide secure authentication and authorization as well as a normally closed architecture to reduce the surface area of attack.

Talking SIP™ Web Service API

Talking SIP™, provides next-generation networks with innovative and in-demand voice guided enhanced services, interactive voice response, and media streaming along with real-time prepaid and postpaid billing. In order to empower next-generation service providers and carriers with the ability to integrate the Talking SIP™ platform into websites, management portals and/or operational support systems we have developed the Talking SIP™ Web Service API (WSA).

The Talking SIP™ Web Service API is a secure, scalable and extensible interface that has been developed around a RESTful (representational state transfer) interface and the lightweight JSON (JavaScript Object Notation) data-interchange format to allow service providers and carriers to seamlessly integrate Talking SIP™ into any application, web site, CRM, portal, or operational support system (OSS) while having the flexibility to be able to leverage the development tools they are most comfortable and productive with.

From account creation, account management, e-commerce, billing history queries, and rate management to system management and the provisioning of devices, route groups and routes, virtually all aspects of the Talking SIP™ platform are exposed by the Web Service API. Developed around a client/server architecture that is stateless, cacheable, layered, extensible and scalable, the Web Service API is easy to adopt and integrate into existing applications, and has been designed with an emphasis on readability, flexibility, and ease of use.

As a result of its ability to provide for rapid and seamless integration into existing applications for greater third party control over system configuration, user access control, and data presentation, the Talking SIP™ Web Service API not only empowers service providers with the ability to develop new interfaces, but also ensures the end-user experience is consistent with their existing applications and web properties.

The Talking SIP™ Web Service API is a vital tool that can be used by service providers to rapidly integrate and deploy the powerful, mature, and field proven features of the Talking SIP™ platform into their network to drive revenue, build customer loyalty and increase retention.

Contact us today to learn more about the Web Service API and why Talking SIP™ is the voice of the next-generation network.

IVRTechnologies

Talking SIP™'s Web Service API opens up a world of possibilities for the leading application, media and billing platform, Talking SIP™, to be integrated into third party applications, websites and portals. Since Talking SIP™ is a database centric application the full gamut of creation, provisioning and management of the platform are exposed in the Talking SIP™ Web Service API.

The Web Service API represents a standards-based approach to integration and interoperability of Talking SIP™ into third-party applications, web sites, and/or portals and is a self-contained, self-describing, and modular application that can be published, located, and invoked anywhere via a private network or the public Internet. The Web Service API allows simple and lightweight requests to be made, which encapsulate complicated business process functions such as creating an account, querying billing records, performing a credit card-based recharge, or updating the settings of a Talking SIP™ Communications Node. The Web Service API's component-based programming and distributed computing model enables component-oriented software development strategies with a foundation on widely accepted industry standards.

The Talking SIP™ Web Service API enables existing application and business process integration at a level that is straightforward, cogent, secure and scalable to provide a time-to-market advantage and a level of integration never before possible. Service providers and carriers can seamlessly integrate Talking SIP™ into any application, web site, CRM, portal, or operational support system (OSS), which gives them the flexibility to be able to leverage the development tools they are most comfortable and productive with, while ensuring the user experience is consistent with their other properties, thus reducing the learning curve and accelerating the rate of adoption. By offering server-to-server connectivity between partners, vendors, service providers and carriers in a simple, lightweight and encapsulated manner that is easy and straightforward to implement, the traditional barriers associated with business-to-business (B2B) integrations are quickly dissolved.

The Talking SIP™ Web Service API will catalyze the creation of business systems and networks, through which the complex aggregation of products and services can be created and managed readily and information can flow freely.

Sample Request and Response

The following is a sample request and response for a balance lookup on a particular account:

Request

URL: https://mydomain.com/wsa/accounts/819257238
HTTP Method: GET

JSON Response

```
{
    "AccountId":3,
    "Account":"819257238",
    "BillingType":"btUnlimitedCredit",
    "CreditLimit":0,
    "Balance":4.23,
    "FirstAuthenticatedDateTime":1307366859,
    "ActivationDateTime":1348702690
}
```

Features & Functionality

The following is a list of some of the features and functionality of the Talking SIP™'s Web Service API:

Standards Based
- RESTful (representational state transfer) interface
- JSON (Javascript Object Notation) lightweight data-interchange format
- Supports SSL for secure communication

Features
- Ability to create, review and modify account information by account, reference, alias and sequence
- Ability to review, modify and/or delete all account level services
- Ability to create, modify, delete and generate batches of accounts
- Ability to debit and credit account balances
- Ability to import, export, enable, disable and modify accounts
- Ability to transfer full or partial account balances from one account to another
- Ability to recharge accounts via credit card
- Ability to enumerate all system types
- Ability to review, modify and delete all reference tables (e.g. Customers, Classes of Service, Account Groups)
- Ability to trigger callback and IPC requests
- Ability to review, modify and delete Rate Schedules, Rate Plans, Surcharges and Rate Tiers
- Ability to retrieve billing, traffic, call session, and system statistics for auditing and/or reporting purposes
- Ability to perform Account SIM management

- Ability to review, modify and/or delete the contents of any table within the TEL_DATA database
- Ability to list and update all System and Module Settings
- Ability to review, modify and delete Devices, Device Module Maps, DNIS Module Maps, Outbound Routes, and Route Groups
- Ability to review, modify and delete Currencies, Languages, Language Groups, and Codec Classes
- Ability to review and purge Event Log, Call Log, Security Log and Blocks
- Reporting call to extract reporting data from the platform via SQL

Opportunity

The Talking SIP™ Web Service API provides a great way for service providers and carriers to integrate the leading next-generation application, media and billing server, Talking SIP™, into their existing infrastructure for a seamless, comprehensive, and cohesive integration.

Use the Talking SIP™ Web Service API to allow white-label providers to integrate into your network in a secure and partitioned manner that deepens the relationship and builds a natural inertia to migration.

Contact us today to learn how to drive additional revenue to your network and increase subscriber loyalty through Talking SIP™'s Web Service API.