



SEA SOFTSWITCH

Tadiran's Next-Generation-Network providing dynamic telephony solutions through an advanced distributed architecture.



Communications - Simply Unified!

Tadiran Telecom's Sea Softswitch. A multimedia-over IP unified communications solution with powerful desktop applications.

- Pure IP softswitch
- Real-time distributed system
- Redundancy and fault-tolerant by design
- Rich desktop productivity tool
- SIP-based unified messaging
- Multiple applications: speech recognition, IVR, MCU, etc.

The Sea Softswitch is based on a completely new distributed architecture. Regardless of the number of sites, all Sea Softswitch servers share one real-time distributed database, designed to meet any enterprise's communications needs. Utilizing open standards (including SIP, MGCP and CSTA), Sea Softswitch is fault tolerant by design and built to serve all enterprise sites as a single entity. No compromises. No legacy constraints. No networking of sites. Just one fully distributed system across the board.



And while easy to manage and maintain via a web-based unified Admin system, the Sea Softswitch is also user oriented, with unified messaging capabilities, a personal desktop productivity tool, and a web-based portal for customizing routing rules and telephony features. Sea Softswitch – experience unified communications at its best.

Features / Benefits

Open Standards

The pure IP Sea Softswitch provides flexibility and compatibility by adhering to industry standards.

- SIP, MGCP, and CSTA protocol support
- Enterprise-class standard SQL database
- Secure, hardened Linux operating system
- Third party SIP endpoints/trunks and gateways support
- LDAP support (Sea Navigator)
- TAPI support (Sea Navigator)

Web-based Unified Management

Sea Softswitch Admin is based on innovative principles of management.

- Multi-level Administration (System, Group, and User)
- Integrated administration saves time
- Short end-user change request wait time
- Unified management system for VM, Phones, ACD, Gateways, etc.
- Real-time Alerts and Notifications
- Simple multi-site management
- Locationless single point of administration for all users
- Single licensing management
- Concurrent administrators
- Time zone setting per site
- Secure remote login (HTTPS)

User Centric

The Sea Softswitch is designed around the user rather than a device or phone extension. This allows the system to provide applications that match a user's changing needs.

- Users can be reached anywhere, any time on all devices via personal routing rules
- Allows for multiple devices, aliases, schedules, and routing rules
- Single consolidated inbox for all devices of a user
- User-based as opposed to device-based billing

Redundancy

Sea Softswitch servers store identical information such that services can be provided to users by any server.

- Each server (or site) is a live backup for all the others
- Fault tolerant by design
- Site can operate without connection to other sites, and a "Survivable Remote" when the WAN connection is lost

Applications

Essentially a communications services platform, Sea Softswitch provides a variety of optional applications.

- Conferencing facilities, including large secured N-way and Meet-me (up to 48 participants)
- Sea Navigator unified communications desktop productivity tool includes IM capabilities, Outlook integration, presence / status information, built-in softphone, extensive search capabilities, connection to the organization databases, and other applications
- Multi-Layered Mobility - including Call Through, Call Back, and FlexiCall (reach-me-anywhere)
- Workgroup shared-line button functionality ideal for Customer Support / Pre-sales teams
- Enhanced 911 support to local or public emergency centers

Closed User Groups

The system can be divided into autonomous sub-systems for complete separation of services within each sub-system.

- Provides a complete virtual telephony system per group of users enabling the flexibility to share or separate resources such as attendants, trunks, and other resources
- Separate management per group
- Provisions, profiles, and routing rules per group
- Billing and logging per group



Applications Scenarios

Distributed Enterprise Deployment



Distributed Enterprise - with its ability to join geographically dispersed satellite offices, the Sea Softswitch is the perfect platform to provide seamless communications and a single point of administration.

*Sea Port – an integrated Sea Softswitch server with an embedded Wave gateway housed in a compact 1U unit.

Hosted Deployment

Sea Softswitch is an ideal platform for Service Providers that offer telephony services to businesses.

In hosting environments where the database resides at the Service Provider NOC (Network Operations Center) or on the enterprise's premises, Sea Softswitch offers:

- Full redundancy
- Rich set of features / applications
- Centralized multi-site management
- Interoperability with 3rd party solutions
- Low hardware overhead
- Business continuity during network failure

Wave Gateway

The Wave is a family of dedicated gateways for the Sea Softswitch that can easily be configured and administered via the Sea Softswitch unified management portal. Available in many models to match existing or new interfaces, they provide telephony connectivity and access points to integrate the Sea Softswitch with telephone digital

circuits, analog trunks, and single-line analog stations. Any Coral system can be converted to function as a Wave gateway while maintaining all the existing Coral equipment, including terminals and trunks. The latest edition to this family, Wave SP, provides the same benefits in a compact 1U package.



SeaMail

The Sea Softswitch's integrated voicemail and Unified Messaging module, SeaMail allows users to receive voice and fax messages as email attachments in their inbox, or have their emails converted to voice files and listen to them from

their phone. The system can also be set up to work with other voicemail programs, such as Microsoft Exchange, and offers optional features, including speech recognition, Text-to-Speech, and Speaker Authentication (Viometrics).

Sea Navigator



Smart personal desktop productivity tool that includes:

- Built-in softphone with independent dial pad for placing calls (can also be associated with users' Sea Softswitch phones)
- Rich set of telephony features
- User defined contact groups – dialing, instant messaging, and emailing (with LDAP integration) directly from Outlook, public, and personal contact lists
- TAPI service provider – supporting direct dialing and incoming pop-up screens from Outlook, ACT, Windows Dialer, and other TAPI compliant applications
- Virtual programmable buttons for speed dialing, voice paging, and presence monitoring
- Extensive call log with search and flagging options
- Message Waiting Indicator
- Instant Messaging with full presence support
- Automatic upgrade upon login

Terminal Equipment

Tadiran offers a wide range of feature-rich SIP and MGCP phones and softphones. Smart IP keysets include the FlexSet-IP (MGCP) and T200 series (SIP and MGCP).

SeaBeam Softphone (SIP) features video-conferencing, on-demand call recording, and presence notifications/alerts, while the FlexIP Softphone (MGCP) is a fully-

featured communications device that combines all of the benefits of a standard phone with the convenience and flexibility of an interactive desktop application.

Third party SIP terminals, including video phones, are also supported.



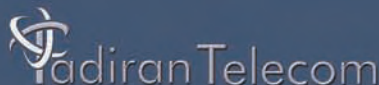
Coral Sea Softswitch Selected Feature List

- ACD (Automatic Call Distribution)
- Active Directory IDs for phones and administrators
- Administration levels: Administrator, Manager, User
- ARS (Automatic Route Selection)
- Auto Attendant
- Busy indication on DSS
- Call Forward (CFW)
- CFW all/busy/no answer/DND/on logout
- CFW based on caller-ID
- Call Log
- Call Waiting
- Caller-ID screening
- Calling number and name
- Comfort Noise Generation
- Conf. Originator can 'hold' and get calls
- Conf. Participant can add participants
- Conf. participant can 'hold' and get calls
- Configurable DSS buttons (FlexSet-IP)
- Consult / Screened (two-step) Transfers
- Database backup and restore
- DHCP Client
- DID (Direct Inward Dialing)
- Directed Pickup
- Display Date, time, duration, ANI, conf. status, park, etc.
- Distributed servers
- Distributed, No single point of failure
- DNIS send on analog ports
- Do Not Disturb
- DSS Programmable buttons
- Dynamic time & announcements in AA
- E1, PRI with QSIG
- FAC + SMDR reporting
- Fault Tolerant
- Fault Monitoring
- Fax / VM
- Fax T.38
- Flexible LCR (Least Cost Routing)
- FlexiCall + transfer /Conf from cellular
- Follow Me
- FXS and FXO gateway support
- G,711A/u, G.729A/B, G.723.1_5.3_6.4
- Group Pickup
- Hands Free
- Hoteling login/logout
- Hot standby of trunks
- Hot swap of phones between servers
- Integration with Coral systems
- Integration with legacy TDM switches
- IP smart phone support
- Last Number Redial
- Loudspeaker ring and volume control
- Meet Me Conference (multicast)
- MGCP, H.263 (SIP Video)
- Multi Appearance
- Multiple DID NPL
- Multiple line appearance
- Multiple Music on Hold sources
- Music on Hold / Consultation
- Multi-way, 48-party conferencing
- MWI (Message Waiting Indicator)
- Native SIP with feature codes
- Night Call Forward
- Off-hook voice announce
- Outgoing number filters / add /remove
- Personal call routing rules
- Personal web portal
- Physical buttons for VM, Hold/Retrieve, Txfer, Mute, Redial, Speaker, Conference
- Play message from Outlook or phone
- POE 802.af
- Prime Line Selection
- Privacy- ANI Restriction
- Private libraries (speed dial)
- Pure IP (IP only switching)
- Presence
- Q.931
- QOS
- Recall after unattended Transfer
- Remote redundant servers
- Remote Switching Servers with hot standby
- Replicated/Distributed architecture
- Ringer Volume Adjust
- Shared Extensions on multiple phones
- Single Intercom / Group intercom
- SIP Phone support
- SIP Trunk (with authorization/registration)
- Softphone on Citrix or Terminal / Server
- Softphone SIP support
- Softphone support
- Speaker and ring volume control
- Speaker Phone (w/ Mute)
- Speech recognition (voice phone book & menus)
- Symmetrical distribution
- Toll Restriction
- Tools for QOS maintenance
- Transfer busy / No Ans.
- Transfer w/o hold (unscreened, single-step, or blind transfer)
- Unified Messaging with Exchange
- Unlimited! Number of administrators
- User centric design
- Video Support with optional SeaBeam
- VLAN support 802.1Q
- Voice Page
- Voice Mail, Auto-attendant
- Web administration
- Web-based online help
- Wifi phone + optional roaming

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