

## **Release Notes**

Release 2.0.0  
Date June 15, 2013

This document describes all features, enhancements and issues associated with AVAVoIP, release 2.0.0.

The document includes the following sections:

- New features — summary of all new features for the current release.
- Maintenance notes – details about fixed issues with current release.
- System requirements — information on system prerequisites.
- Installation and upgrade notes — instructions about installation and migration.

# AVAVoIP

## VoIP Turnkey Solution

### New features

#### Backend

- **Core Engine** – refactored from scratch the core backend authentication, authorization, accounting and routing cores to increase system performance, scalability and availability.
- **Provisioning** – introduced incremental real time provisioning of objects into the in-memory backend store.

#### AVAVoIP Admin

- **Account Member** - members are system entities which use service features such as calling, numbers, voicemail, subscriptions, etc. Members represent sets of features, access and routing rules which define how end users associated with the account can use the provided services. There is always at least one member called Default Member which inherits all current account features.
- **Trigger Charges** – these are charges triggered by the assignment of objects such as lines, members, numbers, toll free numbers, subscriptions (usage counters), voicemail, etc.
- **Lines** – optimization of the old Maximum Concurrent Calls functionality. Lines define how many calls one object will be allowed to have simultaneously - there are account lines, member lines, endpoint lines, etc.
- **Account Features** – this functionality allows for management of all account features in one place (numbers, lines, endpoints, PINs, speed dials, voicemail boxes, caller ID, call forwarding rules, etc.)
- **Call Forwarding** - functionality to forward incoming calls to one or more registered devices or to one or more landline or mobile phones.
- **Automatic Taxable Accounts** – this functionality allows the creation of automatically taxable accounts from IVRs
- **IVR behavior based on Access Numbers** – this feature allows different IVR behavior depending on the Access Numbers (DIDs) used.
- **Alert for Required Provisioning** – this functionality assists users by showing a notice when provisioning is needed.
- **Tags** – this feature allows users to input keywords for grouping and searching of numbers and members. There are member and number tags in the system.
- **IVR Servers** – this functionality allows adding of IVR servers (Asterisk) from the Admin portal of the system.
- **Member Reports** - optimization of the old Account Reports, there is now an option to display reports per individual member.
- **Blocking of Negative Margin Calls** – this feature allows users to block calls if the cost is higher than the revenue.
- **Number Set** – this functionality is used to manage numbers. Number Sets are associated with Subscription Plans - accounts can only purchase numbers from number sets associated with the plan the account is subscribed to.
- **Numbers** – these are origination DIDs which are associated with accounts and can be forwarded to endpoints or external numbers. Numbers are managed within number sets.
- **Toll Free Numbers** – functionality which allows managing and billing of Toll Free numbers.
- **Generation of Fake number in Number set** – used for assigning fake numbers for authentication of on-net calls.
- **Number Settings** – these are the settings to be inherited from the numbers functionality. Settings include release and reserved period, ring duration when call hunting, system translation set, force disconnect cause, route media, etc.

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- **Inbound and Outbound ON-Net Billing** – functionality allows granular rating, billing and reporting for incoming and outgoing calls between accounts in the system.
- **TollFree Billing** – the feature allows granular rating billing and reporting of incoming TollFree calls based on ANI. The functionality also enables reporting of per minute TollFree carrier costs.
- **Voicemail Servers** – this feature allows users to add one or more voice mail servers to the system. Voicemail servers then can be associated with subscription plans - this way calls to voicemail from members of accounts in the plan will be sent to the selected voicemail server. Voicemail servers can be assigned in many subscription plans but a subscription plan can only have one voicemail server assigned.
- **Selective Media Routing** – the functionality allows granular configuration of media routing per endpoint
- **Origination carriers** – the system now allows management of origination carriers (e.g. billing and calculation of origination cost to DID provider).

## AVAVoIP CRM

- **Signup Core** - this is the core signup functionality module, it is required by all modules that allow signup.
- **Payments Core** - this is the core payments functionality module, it is required by all modules that allow payments.
- **Subscriptions Core** - this is the core subscription functionality module, it is required by all modules that allow subscription.
- **Voicemail Core** - this is the core voicemail functionality module, it is required by all modules that allow voicemail.
- **Single-step Signup** - enhancement of functionality to allow customers to purchase numbers, lines, subscriptions, Toll Free numbers, etc.
- **Multi-step Signup** - enhancement of functionality to allow customers to purchase numbers, lines, subscriptions, Toll Free numbers, etc.
- **Night/Weekend Routing** – allows users to change the route set of the accounts on to night and weekend schedule.
- **Landing Page** – new module that allows users to create multiple landing pages.
- **Residential Subscriptions** – new module for the residential business case that allows customers to purchase and cancel subscriptions through the CRM.
- **Enterprise Subscriptions** – new module for the enterprise business case that allows users to purchase, cancel, or assign subscriptions through the CRM.
- **Residential Voicemail** - new module for management of residential voicemail boxes, it enables residential users to have a single voicemail box on the system
- **Enterprise Voicemail** - new module for management of enterprise voicemail boxes, it enables enterprise users to create multiple voicemail boxes and call forwarding rules.
- **Residential Numbers** – new module that allows residential users to select and purchase residential numbers, cancel numbers, configure number forwarding to phones or endpoints, etc.
- **Enterprise Numbers** – new module that allows enterprises to manage numbers, purchase numbers by location and pattern, cancel numbers, manage call forwarding, etc.
- **Devices Basic** – allows retail users to manage endpoints and configure digest authentication (replaces the previous Retail Endpoints Module).
- **Devices Advanced** - allows advanced management of account devices for wholesale and enterprise environments (replaces the previous Wholesale Endpoints Module).

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- **Lines** – new module that allows enterprises to purchase or cancel lines in the system. Not relevant for the residential business case.
- **Members** – new module that allows enterprises to manage members in the system. Not relevant for the residential business case.

### Miscellaneous

- **Subscription Plans** – enhancement of existing functionality to allow the management of call billing, call routing, members, lines, voicemail servers, number sets, IVRs, etc.
- **Usage Counters** – enhancement of existing functionality to allow carry-over of unused volume/occurrences.
- **Surcharges** – enhancement of existing functionality to allow surcharges to be applied to usage charges and access numbers.
- **Destinations** – enhancement of existing functionality
- **CLI Script** – enhancement of existing functionality to allow for better management of Yate processes.
- **Taxes** – optimization of existing functionality to allow taxes to be associated to access numbers and surcharges as well
- **Callback application** - refactoring of existing functionality
- **Calling Cards application** – refactoring of existing functionality
- **Call Control process** – introducing a new functionality for reset calls allowing the limiting and billing of incidental hung calls
- **Update Balance process** – attend to the real time update of the account balances
- **Current Calls Report** – enhancement of existing functionality to allow support of the new features
- **Calls Distribution** - enhancement of existing functionality to allow support of the new features
- **CDR Lookup** - enhancement of existing functionality to allow support of the new features plus new details added (e.g. routes through which the call was terminated)
- **Invoices** - modification and optimization of invoice generator and invoice PDF creator
- **Reports** – introduced reporting for on-net and toll free calling, per destination reporting, per account category reporting, enhanced many current reports

### Maintenance notes

The following features have been removed with the current release:

- Authentication by Tech Prefix
- Imported CDRs in Reports

The following issues have been fixed with the current release:

- Scalability limitations of AVAVoIP backend
- Performance optimizations of reporting and database

### System requirements

No changes to system requirements.

### Installation and upgrade notes

No changes to the installation and upgrade processes.