



Sippy Software, Inc

# Sippy Softswitch

## Version 2.0 Release Notes

April 2010

The release 2.0 of Sippy Softswitch continues Sippy Software initiative of enabling ITSPs offering different VoIP products and services from a unified platform. This major release delivers improved switching and billing architecture, advanced routing and management features and broader set of supported business scenarios.

## What's New in Sippy Softswitch 2.0

### General Changes

- Hosted Environments support  
Sippy Softswitch 2.0 introduces support for hosted softswitch environments. Each environment acts as, and has “look and feel” of a stand-alone softswitch and supports all of the features. This includes multi-tier billing, regular switching and provisioning features, all IVR applications (calling card, callback etc) and so on. System owner can assign limits to each environment, to properly distribute available hardware resources between them.

### Billing/Rating Changes

- Local (in-state) Calling Rates support  
The rating engine has been extended to support different rates for local (in-state) and long-distance calling. Local rates are also supported by the least-cost routing engine.
- Low Balance Notifications support  
New feature has been added allowing the system to automatically notify customer and account owners when balance reaches some pre-configured threshold.
- Automatic Recharge support  
The billing system has been extended to allow automatically recharging account or customer using credit or debit card when balance falls below certain amount.
- PDF Invoice Generation  
The billing system now includes option to automatically generate PDF invoice for account on a billing date. Current and past invoices are stored and available for download via account self-care interface.

- PayPal Pending Payments support

Billing engine has been extended to support PayPal pending payments. This allows properly accepting eCheck payments that might require 3-5 business days to clear.

## Routing Changes

- Destination Number Length Validation support

The routing engine has been extended to allow validating length of the destination number based on destination prefix. This feature allows rejecting “junk” calls and calls with incomplete destination numbers.

- Simplified Configuration for On-Net Calling

On-Net (account-to-account) calling configuration has been redesigned to simplify configuration. This also includes voicemail configuration.

- Simplified DID Number Assignment

The DID Pool feature now allows assigning DID to accounts. The system will route calls to a registered account automatically.

- SIP Response Code Translation support

Version 2.0 of the softswitch supports automatic translation of SIP response codes coming from vendor before they are relayed to the account or customer. This improves integration between origination and termination in many cases.

- German Language support for IVR

The IVR engine has been extended to support German language. It is supported in all standard IVR applications – Calling Card, Voicemail, Callback etc.

## Performance Improvements

- Memory Use optimizations

Several optimizations have been applied to routing and rating engines to reduce amount of memory used. It is expected that with the common-case scenarios memory use will drop by 40-60%.

## User Interface Changes

- Account Classes  
Initial support has been added for account classes, allowing grouping accounts by their intended use.
- Account Undelete support  
Support has been added for restoring deleted accounts. It is also possible to view/download CDRs and summary reports for such accounts.
- Account Lookup interface  
New interface has been added to search accounts by various parameters, which include username, authentication rule, trusted numbers etc.
- Authorize.Net payment gateway support  
Support has been added for the Authorize.Net payment gateway, which is one of the leading payment gateways in the US, Canada, UK and Japan.
- SIP ATA/Phone Auto-provisioning support  
Sippy Softswitch 2.0 supports auto-provisioning of SIP ATA/Phones. Cisco/Linksys devices are supported, support for other devices will be added in the nearest future.

## New XMLRPC API Function Calls

In version 2.0 number of new API calls have been added. The new APIs expose the new functionality and improve switch manageability.

- Smart Dials manipulation:  
addSmartDial(), deleteSmartDial(), updateSmartDial(), listSmartDials()
- Get Account Minute Plan usage details:  
getAccountMinutePlans()
- Export Vendors CDRs into Mera format:  
exportVendorsCDRs\_Mera()

- Debit/Credit cards manipulation:  
addDebitCreditCard(), updateDebitCreditCard(), deleteDebitCreditCard(),  
getDebitCreditCardInfo(), listDebitCreditCards()
- Make payment using Debit/Credit card:  
makePayment(), makePaymentByCard(), getPaymentInfo()
- Manipulate low balance threshold and action:  
getLowBalance(), setLowBalance()
- Get SIP registration status of an account:  
getRegistrationStatus()
- List Authentication Rules:  
listAuthRules()
- Get callback request status:  
getCallbackStatus()

### Third-party Software Updates

Most of the third-party software packages have been updated to the latest version for improved performance, security and reliability. Particularly:

- Apache web server has been upgraded to the version 2.2.14.
- PHP language interpreter has been upgraded to the version 5.3.2.
- Python language interpreter has been upgraded to the version 2.5.5.
- FreeBSD operating system has been upgraded to the version 7.3.
- Asterisk IVR server has been upgraded to the version 1.4.29.

## Contacts

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