

# Introduction

This guide has a brief overview of the changes that will be introduced by the TeliCore upgrade. Please note, it lists the major changes, for the full list of changes please refer to the new features guides below.

- MR 51 - <http://util.telinta.com/link?732731>
- MR 52 - <http://util.telinta.com/link?4192787>
- MR 53 - <http://util.telinta.com/link?1708013>
- MR 54 - <http://util.telinta.com/link?5960533>
- MR 55 - <http://util.telinta.com/link?6581370>

# Web Interface

## Translation Rules Classes

With this release, all rules of number translation are divided into two main classes:

- Customer-specific dialing rules, used for converting numbers dialed by end users to the PortaSwitch® format - E.164 format;
- Vendor-specific connection rules, used for converting numbers from the E.164 format to one defined by a particular vendor for further call processing.

Both translation rule classes are created using different sets of options, therefore their division leads to the optimization and simplification of their configuration.

**Additional Info** - <http://util.telinta.com/link?732731> pages 5-7

**Note:** This feature will be available only when all TeliCore components are upgraded.

## Enhanced SIP Log Viewer

When troubleshooting unsuccessful calls, the administrator needs to have the ability to quickly and efficiently filter a particular call log to find the root of the issue.

This can easily be done with enhanced SIP log viewer functionality, which now works with Elasticsearch storage and features an enhanced web interface.

Apart from the default search by Call-ID, it now contains a set of additional search criteria by which a call can be traced. When necessary, several search criteria can be combined into a single search query, thus narrowing the search of a particular call log.

**Additional Info** - <http://util.telinta.com/link?732731> pages 7-9

**Note:** This feature will be available only when all TeliCore components are upgraded.

## New interface for volume discount plans

In this release, you will discover a completely new interface for managing volume discount plans. The redesigned interface is more intuitive and user-friendly - plus has an entirely new look and feel. In addition, it operates on the Ext JS 5 framework, which decreases web page response waiting time.

**Additional Info** - <http://util.telinta.com/link?4192787> pages 14-16.

## Customer Premises Equipment (CPE) profile creation for resellers

Starting with this release, resellers can create their own CPE profiles. CPE profiles permit the auto-provisioning of a large number of IP phones without each unit having to be configured individually.

**Additional Info** - <http://util.telinta.com/link?4192787> page17.

## The DIDs tab is added to the Customer and Reseller Management pages

The DIDs tab makes it possible for an administrator to easily view full information about a customer's DID numbers on that customer's page. The new tab represents:

- the total quantity of DID numbers assigned to a customer or a reseller
- the total monthly charges
- a table with DID number information.

**Additional Info** - <http://util.telinta.com/link?4192787> pages 18-19.

## Enhanced Huntgroup Management

Starting with this release, IP Centrex configuration is done solely from the customer self-care interface. This transfers control of IP Centrex management tools to customers, thus reducing the load on administrators. Administrators, however, can still log on to a customer self-care interface and assist the customer with configurations, if needed.

Furthermore, huntgroup management has become more flexible. Now during huntgroup configuration, a customer can define whether or not an extension rings when a call arrives at the huntgroup. When inactive (does not ring during a call to a huntgroup), the extension owner can still make and receive direct calls and perform call pickup. Of course, a customer can further change this extension's activity within the huntgroup, if desired, with just a few mouse clicks.

**Additional Info** - <http://util.telinta.com/link?5960533> pages 16-17.

## Custom Fields Visibility Control

Custom fields are used for storing additional attributes that supplement the standard PortaBilling information. This can be information about a customer's bonus, driving license ID, a code name

that maps an Internet customer to a certain vendor, etc. and can be very useful for troubleshooting.

In some cases an administrator may prefer to hide certain information from end users. Thus, in the above example, a vendor's code name is internal service information and therefore should be visible only to administrative users.

With this release TeliCore administrators have the opportunity to control custom fields visibility. Visibility can be set on the Web Interface page. The custom fields that existed before the system upgrade will be visible by default, however, an administrator can edit their visibility at any time.

## Test dial plan for messaging service

With this release an administrator can test how a message will be delivered to a recipient. The routing results are displayed for both SIP and SMPP protocols on separate tabs. Therefore, the administrator can manage customers' message routing and then make adjustments as needed.

**Additional Info** - <http://util.telinta.com/link?5960533> page 21.

## Fraud Protection section

A new **Fraud Protection** section has been added to the PortaBilling main page. The section includes links to:

- **Geo / Risk Profiles** - A tool that provides fraud protection based on the location from where services are used.
- **Fraud Traffic Profiles** - A tool that provides fraud protection based on the destinations to which calls are made.
- **Spending Plans** - A tool that limits the amount of money that a customer can spend per day on services.

## Extended ACL Possibilities

The access control list (ACL) defines which features a PortaBilling user can view and modify on the web interface. In previous releases, an administrator could only define the access level to an entire service feature. Now he can do it for each service feature field. This provides extended possibilities for fine-tuning the ACLs and optimizing the web interface view for different PortaBilling users.

**Additional Info** - <http://util.telinta.com/link?6581370> pages 10-11.

## Message Logs in the SIP Log Viewer

When an administrator troubleshoots a message-related problem (for example, unsuccessful message delivery), it is essential to locate the particular message log to find out the root of the issue.

Now, along with call logs, the administrator can view message logs with the SIP Log Viewer tool. The administrator needs to know the Call-ID of a specific message in order to view its log. If the Call-ID is unknown, the administrator can filter message logs by time interval, originating phone number and / or by originating IP address or destination phone number to locate the message log needed.

**Additional Info** - <http://util.telinta.com/link?6581370> pages 11-12.

## Improved call forwarding mode switching

In previous releases, changing a call forwarding mode via the account self-care interface implied removing previously defined information (e.g. phone numbers, ringing time, etc.).

With this release, the call forwarding information is retained for the following interchangeable modes:

- Follow-Me and Advanced Forwarding.
- Simple Forwarding and Forward to SIP URI.

For example, if you change the forwarding mode from Follow- Me to Advanced Forwarding, then phone numbers, descriptions, ring schedules and other mutual parameters are retained - you do not need to enter them twice. If you change a forwarding mode from Follow-Me to Simple Forwarding, then previously defined data is treated as obsolete (because the modes are not interchangeable). The system automatically erases this data, saving you from having to do it manually.

This improved call forwarding configuration ensures a better user experience and saves time for your end users.

## DID numbers download

To analyze the DID inventory and / or modify the parameters for existing DIDs, you can now download them from the DID inventory. To start the download, click the **DID Download** button on the toolbar on the **DID Inventory** page.

Use the downloaded file to update the DID activation and periodic costs and then upload it back to the DID inventory or use it as a tool for analysis.

# Billing

## DID Provisioning for Multi-level Resellers

In order to expand the DID provisioning network and boost sales, DIDs are now provisioned by resellers of all levels.

Subresellers can access the DID pool and perform the same actions as top-level resellers when provisioning DID numbers via the DID inventory.

**Additional Info** - <http://util.telinta.com/link?732731> pages 9-10.

## Initial Invoice

Sometimes you need to create a customer and immediately generate an invoice containing the activation fee, service charges for the current billing period, etc. Initial invoice makes it possible to apply and calculate these charges once the customer has been created. Initial invoice improves client service by saving customers' time while providing you with a tool for generating early payments.

**Additional Info** - <http://util.telinta.com/link?732731> pages 10-11.

## Invoice Wizard

The new Invoice wizard is used to easily create, adjust and generate customer invoices. The wizard makes it possible to finalize the following actions:

- Invoice type selection
- Fee control
- Summary review
- Payment (optional)
- Invoice generation

**Additional Info** - <http://util.telinta.com/link?732731> pages 11-13.

## Due date adjustment in the invoice wizard

An administrator can now set the desired due date for all invoice types. This allows you to override the invoice's due date defined in the customer class and satisfy specific arrangements with customers.

**Additional Info** - <http://util.telinta.com/link?6581370> page 14.

## **OLI-based Charging for Calls via SIP**

When service providers rent incoming toll-free lines from vendors, they may find themselves charged differently for calls that arrive to a toll-free number, depending on whether the call originated from a payphone or a mobile phone, etc. With TeliCore, service providers can now take call origination into account when charging their customers, thereby reimbursing prime costs and providing more diverse services.

**Additional Info** - <http://util.telinta.com/link?732731> pages 14-16.

Tokenized transactions for Ingenico Payment Services (formerly - Ogone)

In case of token-based payments, a payment processor stores the credit card data (or other payment information) in its own storage space and issues a token instead.

**Additional Info** - <http://util.telinta.com/link?732731> page 18.

## **DID groups and pricing batches**

Starting with this release, the owner DID batch has been divided into two entities:

- DID group - The only purpose of DID groups is to arrange DID numbers into categories (for example, by geographic location).
- Pricing batch - This is solely intended for defining the pricing policy for DID number provisioning.

**Additional Info** - <http://util.telinta.com/link?732731> page 20.

## **Credit card verification without charging funds**

As soon as a customer adds a new credit card to TeliCore, the credit card is verified.

Now during the credit card verification process, the system performs an Authorization only transaction instead of an actual charge. The Authorization only transaction reserves an amount of money on the customer's credit card for a certain time period. This does not affect the customer's balance or change his credit card balance.

## Representatives for resellers/subresellers

Resellers are now able to add their own representatives. To provide an easier configuration experience, resellers are also able to add representatives for their subresellers. Representatives are people who represent the company, selling the company's services and earning commissions for the sales they make.

## Billing Based on Measured Resource Consumption

Services are typically billed based on individual events such as voice calls. There is, however, another popular billing model in which billing is based on the continuous usage of allocated resources such as number of concurrent calls (SIP trunks) permitted for a particular customer. PortaBilling now has this ability to measure allocated resources. The aggregated value of measured resources can be used for statistics and, additionally, for applying charges to customers.

The parameters that can be measured and billed for are as follows:

- **The number of concurrent calls allowed (SIP trunks).** This is the number of simultaneous outgoing calls allowed for a particular customer. The number of simultaneous outgoing calls is defined by an administrator as part of the customer service configuration for all customer accounts or for this customer's individual site (in the Limit Simultaneous Calls service feature).
- **The number of active calls.** This is the actual number of connected calls at a specific moment in time.

**Additional Info** - <http://util.telinta.com/link?4192787> pages 6-10.

**Note:** This feature will be available only when all TeliCore components are upgraded.

## xDR Mediation

The xDR Mediation utility is a powerful new tool that replaces the legacy xDR Importer and significantly expands and enhances the pre-existing functionality. Among the new features that one can benefit from are the following:

- Extended range of supported formats
- A custom data transformation module
- Flexible import setup vs. unified rating
- Re-run the rating process for rejected or failed xDRs

**Additional Info** - <http://util.telinta.com/link?1708013> pages 5-7.



## Discounts, Quotas and Service Wallets

With this release, improved volume discount plans offer more opportunities for managing price offers for your customers. The discount plans have been developed and structured into three discount schemes - discounts, quotas and service wallets. Use these discount schemes separately or combine them with each other to get the best solution for your business model.

- **Discounts** - Using discounts, you can adjust prices depending on the volume of service consumed by customers. This encourages them to use the service more in order to receive the discount (e.g. spend \$20 for calls to the UK and get a 30% discount for the following calls made during the rest of the month). You can also use discounts to make special offers (e.g. new customers receive 50% off for 10 GB of Internet traffic).
- **Quotas** - With quotas you are now able to allocate a defined volume of services for your customers free of charge. A quota is usually combined with a recurring fee (a subscription). For example, provide 100 minutes for calls to Canada and 3 GB of Internet traffic for a \$30 monthly fee.
- **Service Wallets** - This tool makes it possible to divide the customer's balance into virtual sub-wallets. Each sub-wallet is designated for a specific service and destination group. Therefore, money transferred to a sub-wallet can only be used for a specific service (e.g. only for calls to the US or only for sending SMS, etc.). For example, a customer wants to have unbroken access to the Internet even if all his available funds have been consumed by making calls. So the customer tops up his Internet service sub-wallet by \$10 using a credit card. The customer receives 5 GB of Internet traffic that can be used even when his available funds reach zero. Service wallets can be topped up via the customer self-care or administrator web interface.

Discounts, quotas and service wallets can be configured based on the consumed volume of service (e.g. minutes, Mb, SMS) or on the service cost (note that this cost is calculated using a standard rate).

**Additional Info** - <http://util.telinta.com/link?1708013> pages 7-12.

**Note:** This feature will be available only when all TeliCore components are upgraded.

## Spending Plan

To help service providers minimize losses from fraudulent events, we have introduced the new spending plan functionality.

A spending plan defines the amount of money per day that a customer can spend on services. PortaBilling tracks the customer's daily charges and once the spending limit is reached, this customer's services are suspended. However, customers whose spending limit has been reached can still make calls to emergency numbers. Regular service usage is reinstated on the following day when the spending plan is renewed.

**Additional Info** - <http://util.telinta.com/link?1708013> page 19.

## Extended xDRs for IP Centrex Calls

Owners of IP Centrex environments may wish to obtain information about the actions of particular extensions during "complex" calls, i.e. calls that consist of several call legs such as call transfer, call forwarding, etc. For example, you might want to know which extension transferred the call or for how long an operator actually spoke, so that this information can be used in statistics reports.

With this release, xDRs for complex IP Centrex calls are complemented with auxiliary call details such as:

- Which huntgroup a call came from
- What the last extension ID was that forwarded or transferred the call
- The actual call duration, i.e. the length of time an operator spoke in the call
- The caller identity from where the call originated

**Additional Info** - <http://util.telinta.com/link?1708013> pages 20-21.

## Advanced Invoice .pdf File Generation

With this release, it is possible to enable, postpone or skip invoice generation in .pdf files.

Pdf file generation is a resource-consuming process, therefore this functionality makes it possible to evenly distribute the load on the system and save hard disk space. This is a very useful tool for companies that order invoicing services from third parties.

There are three ways to schedule .pdf file generation. Define the most appropriate way for you at the customer or customer class level.

- .pdf file generation at the end of a billing period
- Postponed .pdf file generation
- .pdf file generation on demand

**Additional Info** - <http://util.telinta.com/link?1708013> pages 24-25.

## Adjustments for Paid Invoices

Once customers pay their invoices automatically by credit card, they receive their invoices with the status Paid. Sometimes, however, an administrator may need to adjust such an invoice and issue a refund to the customer.

Starting with this release, the ability to adjust paid invoices is introduced for administrators and helpdesk operators. When adjusting an invoice, they can select how to apply a refund to the customer: either adding to a customer's balance as unallocated funds or crediting it to the credit card.

**Additional Info** - <http://util.telinta.com/link?1708013> pages 25-26.

## Handling resale tariff change

Now when the service provider or a reseller changes their resale tariffs (for example, from tariff A to tariff B), the entire chain of subresellers must create new resale tariffs too.

For each subreseller in the chain, a message is shown on their self-care interface notifying them that the corresponding resale tariffs are not found. Subresellers are then redirected to the Usage Charges tab, where they can configure the new resale tariffs.

**Additional Info** - <http://util.telinta.com/link?1708013> pages 30-31.

## Use prepaid calling cards to top up an account online

Aside from calling cards, service providers usually need to distribute vouchers - special cards that can only be used for top up. However, it may be economically sound to combine both calling and top-up functionality in one card.

Now end users have the option to top up their accounts with prepaid calling card funds via their self-care interfaces. These cards must share the same product as the account being recharged.

**Additional Info** - <http://util.telinta.com/link?1708013> page 32.

## Complete Destination Group Sets

A new type of destination group set, complete destination group set, has been introduced with this release.

In a complete destination group set any prefix that is used in the system belongs uniquely to only one destination group. This allows service providers to clearly recognize traffic sent through their networks by their target destinations.

When an administrator creates a complete destination group set, it comes with a Default Group that includes all the prefixes available in the system. Upon adding new destination groups in the complete destination group set, the administrator moves the prefixes from the Default Group to these new groups.

A destination group in a complete destination group set (except Default Group) can have sub-groups. This allows the administrator to further distinguish the traffic flow.

For example, to monitor calls sent to premium-rate numbers in the UK, the administrator defines UK Proper and UK Mobile sub-groups for the UK destination group. In this case, the UK destination group contains all of the prefixes added to its sub- groups.

**Additional Info** - <http://util.telinta.com/link?5960533> pages 5-6.

**Note:** This feature will be available only when all TeliCore components are upgraded.

## Routing Margin Tariff

PortaBilling supports a “profit-guarantee” mode for routing. The service provider can define a relative (“choose routes that guarantee 5% profit”) and / or absolute (“choose routes that guarantee \$0.05 profit”) margin between carriers’ and customers’ tariffs. Only those termination carriers who satisfy a service provider’s conditions for the minimum required profit will be used.

In some cases, however, setting a single profit margin for all destinations is not flexible enough for obtaining the best results.

For example, the service can be profitable when a service provider sells it to customers at “10% above the carrier’ price”. Market research, however, shows that certain destinations can be charged a higher rate and customers will buy the service anyway. The service provider sets a higher price for such destinations (e.g. 25% above the standard carrier’s price), and now wants to exclude those carriers that produce less profit from the routing.

With this release, a routing margin tariff is introduced that offers service providers an opportunity to maximize their profits. This is a special customer tariff that is used

exclusively to compare carriers' prices against it. Only carriers having prices lower than or equal to those specified in this tariff will be selected for routing.

**Additional Info** - <http://util.telinta.com/link?5960533> pages 10-12.

## Billing for the Number of Extensions

Beginning with this release, you can measure usage and bill customers for the number of extensions that a customer defines within their IP Centrex environment. This parameter is monitored daily and, similar to existing metrics, is used for displaying consumed resource statistics and calculating charges.

The introduction of a method to bill for the number of extensions allows you to fine-tune your Hosted IP PBX solutions and subsequently enhance your revenue stream.

## Individual configuration settings for out-of-turn invoices

Beginning with this release, an administrator can configure out-of- turn invoices separately from regular ones. The configuration options are grouped in the Out-Of-Turn Invoices tab in a customer class.

**Additional Info** - <http://util.telinta.com/link?5960533> pages 26-27.

## DID Costs Management

Beginning with this release you can easily adjust your vendor costs associated with the DID numbers you provide. Thus, when your DID supplier changes their pricing and sends you an updated DID list, all you have to do is upload it to the DID inventory.

To update the vendor costs in the DID inventory, select the Modify data of existing DIDs option during the DID upload. The new DID numbers from the .csv file, if any, will simply be uploaded to their respective vendor batches in the DID inventory.

**Additional Info** - <http://util.telinta.com/link?6581370> page 9.

# PortaUM

## The IVR applications support Sierra Leonean currency

The IVR application prompts can now announce the account balance in Sierra Leonean Leones (SLL). The language for prompts is English.

## Changes in voicemail configuration for end users

With this release, you can provide access to voicemail and disallow end users to modify its settings (e.g. password, greeting prompts, etc.). To do this, apply the following configuration:

- Enable voicemail via a product and clear the End-users check box.
- Disable the voicemail feature at the account level.

This enhancement ensures that only the permitted settings are applied to the voicemail service.

# Routing and Call Processing

## Country Blacklist

If the service provider wants to block calls originating from countries known for high fraud potential and the screening of calls by means of IVR is unacceptable, the Country blacklist functionality is the one to use.

This new functionality immediately drops calls that come from blacklisted countries. While fraudulent calls are rejected, calls originating from trusted countries come through without restrictions.

**Additional Info** - <http://util.telinta.com/link?732731> pages 13-14.

## Auto-provisioning for RCA Telefield IPX500

This model of IP phone is now auto-provisioned by PortaSwitch®. RCA Telefield IPX500 is a touchscreen IP phone that is integrated with Google Apps, supports transfer functionality for its users and even more.

## Media Encryption in PortaSwitch

These days the telecommunications market demands that secure calls be provided. If a user connects to a public WiFi hotspot and establishes a call from his soft phone, it is possible that a third party could intercept and / or listen in on the conversation. Therefore, it is necessary to protect such calls and guarantee their security by means of media encryption.

Another situation might be that a call established from an application that strictly requires media encryption reaches a phone that does not support media encryption.

**Additional Info** - <http://util.telinta.com/link?1708013> pages 13-17.

**Note:** This feature will be available only when all TeliCore components are upgraded.

## Ring-back Tone Generation by TeliCore

When an end user places an outgoing call, they expect to hear a ring-back tone in return, to signify that the call is in progress. If the line is quiet, the end user might think

the call has failed and might hang up although the call is actually ringing at its destination.

Such situations have been observed when certain VoIP equipment is unable to generate a ring-back tone (for example, due to overload). To ensure that a ring-back tone is delivered to the call originator, TeliCore generates a ring-back tone with this release, thus providing a solution.

To do this, an administrator configures a service policy that commands TeliCore to generate a local ring-back tone if no ringing packets were detected within the ring-back tone detection timeout. This service policy is then assigned to Calls from Vendor connections or accounts.

As a result, if no ringing packets arrive within the predefined timeout, TeliCore plays its own ring-back tone to the caller.

**Additional Info** - <http://util.telinta.com/link?1708013> pages 17-18.

**Note:** This feature will be available only when all TeliCore components are upgraded.

## Early Media Relaying

Early media relaying is a powerful aspect of SIP that allows two endpoints (user agents) to communicate before a call is actually established. In terms of SIP this means relaying media prior to 200 OK is sent in response to an INVITE request.

Starting with this release, PortaSwitch supports relaying early media for transferred calls and including scenarios when a call transfer is performed by auto-attendant.

An administrator configures a service policy that enables early media to be relayed for transferred calls and then assigns this policy to the account that performs the transfer. As a result, early media announcements are played for the transferred party.

This helps to ensure that transferred parties are kept informed about the progress of the call, thus improving the customer's overall experience with PortaSwitch.

**Note:** This feature will be available only when all TeliCore components are upgraded.

## Toll Fraud Prevention

Toll fraud becomes an issue when a hacker breaks into a company phone system and routes unauthorized calls to international (long-distance) numbers. This type of fraud cannot be stopped by merely compiling an IP blacklist and, when it occurs, it usually



results in substantial losses for the company. That is why it is important that administrators take timely measures to prevent it.

In this release, PortaBilling presents a solution that promotes early stage toll fraud detection and sends alerts whenever any potential toll fraud activities take place.

An administrator defines the destinations that will be monitored for toll fraud (for example, Algeria and Ethiopia) by configuring a complete destination group set. Then the administrator creates a fraud traffic profile and selects the previously created complete destination group set for it. For each destination group in the set, the administrator configures a threshold that defines call durations during a span of time that are considered normal (for example, 50 minutes per day).

The administrator assigns the fraud traffic profile to a customer class or directly to a customer. If required, the administrator can override thresholds configured in the fraud traffic profile for an individual customer (for example, if sending larger / smaller volumes of traffic to monitored destinations is considered normal for this customer).

**Additional Info** - <http://util.telinta.com/link?5960533> pages 6-7.

**Note:** This feature will be available only when all TeliCore components are upgraded.

## Alerts about Suspicious Activities

Time is critically important when a fraudulent incident occurs. The sooner one acts, the better chance they have to mitigate possible losses.

Starting with this release, PortaBilling provides notifications to alert customers whenever the following events take place:

- A call made from a customer's account originates from a high-risk location and is therefore redirected to the screening IVR. The account's status is changed to Screened.
- A call made from a customer's account originates from a high-risk location and is therefore immediately rejected. The account's status is changed to Quarantined.

To automatically notify your customers about these events, the Fraudulent Activity on Account notification templates must be enabled in the customer class.

**Additional Info** - <http://util.telinta.com/link?5960533> page 18.

## Enhanced recognition of dialing rules exceptions

Beginning with this release, translation rules do not apply for exceptions that are marked with an asterisk (e.g. \*11). This allows you to define special dial codes (e.g. the access to voicemail number \*98 defined as the exception, is recognized as is, and is not translated).

Other exceptions are recognized as national exceptions and are marked with the specific country code before the local number (e.g. the exception 089% that is defined for North American dialing rules is translated into 1089%; therefore the number dialed as 0895554125 is changed to 10895554125).

This permits you to fine-tune the system according to your customers' dialing habits.

## **Fraud traffic profile**

In this release we are glad to introduce the fraud traffic profile, an effective tool for detecting toll fraud. Toll fraud is a term used to describe when organizations are billed for long-distance calls made fraudulently through their phone systems.

The fraud traffic profile allows service providers to monitor traffic sent through their networks and receive alerts whenever a toll fraud calling pattern is detected. For example, for the service provider who provides VoIP services mostly for the USA and Canada, an administrator can configure the fraud traffic profile to receive alerts when an unusual burst of international traffic is detected. For the service provider who normally has lots of international traffic, the administrator can configure the fraud traffic profile to receive alerts when an unusual amount of traffic is sent to premium-rate numbers.

This new tool allows service providers to promptly identify unusual calling activities and react appropriately, therefore mitigating potential losses.

## **Handling a resale tariff change**

Now when a service provider or reseller changes a resale tariff (for example, from tariff A to tariff B), the corresponding wholesale tariff for their subresellers also changes.

**Additional Info** - <http://util.telinta.com/link?6581370> pages 21-23