**IXC** – Ukrainian VoIP Telecommunication Company, which develops a wide range of contemporary information systems and technologies for communication enterprises. Using advanced technologies and extensive experience highly professional team of IXC specialists has created a unique complex solution consisting of billing system, softswitch and system of statistics gathering. The company has been operating since 1999 and during this time it has implemented more than 300 projects throughout the world (34 countries).

IXC SOFTSWITCH KEY FEATURES

- Deployable in SIP and H.323 VoIP Networks with protocol transcoding
- Up to 2000 VoIP Channels per Server with CPS rate up to 200
- Unlimited scalability
- Advanced security
- Allow call re-route even after SIP 180/183
- G711, G723.1, G726, G729A/B/AB and GSM codecs support
- SMS smpp 3.4 ready
- Most of functions support API via JSON method
- Intelligence routing (lcr, acd/asr, pdd, priority, etc)
- Traffic distribution on percentage basis
- Own developed firewall for preventing SIP spams
- RTP handling (signaling and full proxy mode)
- Multiple authentication methods
- Unlimited calling routes table
- Online billing and reporting
- Active calls template, which include many fields for displaying
- Automatic data back-up system
- Powerful user management system
- Customer's portal with active calls menu
- Codecs Conversion and interoperability with Cisco, Lucent, Quintum
- Intuitive, user-friendly GUI with possibility of customization
- Auto-routes tester with live voice records for checking providers routes' quality and FAS
- 24/7 NOC with multilingual support (en, ru)
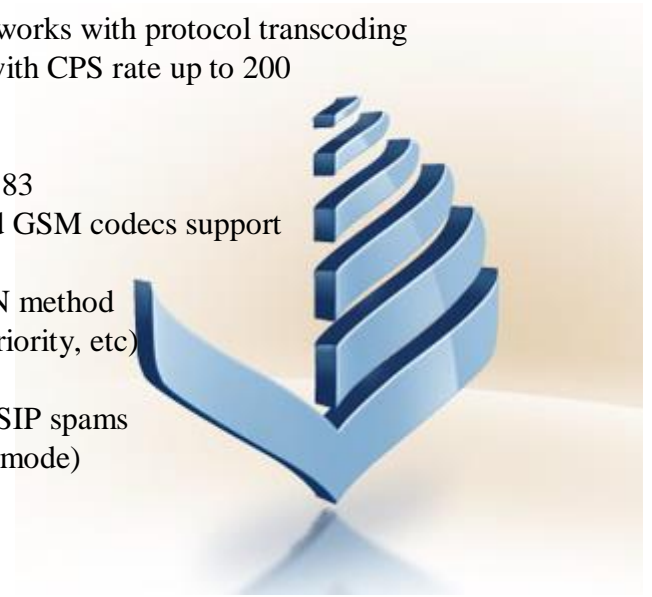
AVAILABLE REAL TIME REPORTS:

Detailed statistics / Traffic flow / Profitability / Balance report / ASR-ACD/ Disconnect Causes/ Payments / Incomes and Expenditures / Auto invoice generation / Statement of account report / Top and Target destination report / Variation report / Most increased/decreased traffic and more

IXCBilling: 5.7.1 English (GMT+00:00) UTC

| Main Page | Management | Financial Tools | System Configurations |

2019-06-05 12:23   Money :

Financial Tools
Originator Calls
Terminator Calls

Traffic Flow Report
Top destinations
Target destinations
Variation report
Balance report
Commitments

Generator Of PDF Invoices
Invoices
Profit Dynamics
Payments Report
Accounts
Payment Categories
Bills
Summary Accounts
Products,Services
Unpaid invoices and bills
Spending By Categories
Incomes, Expenses
Disconnect Causes Report
Web Sessions
Manage tariff plans
Price List Generator
SMS Calls

☑ Show advanced menu

Currencies

Name	Rate (Count in 1 USD)
USD (American dollar)	1.0
EUR (Euro)	2.0
GBP (British pound)	Click for Set
RUR (Russian Federation rouble)	4.0
UAH (Ukrainian hryvnia)	Click for Set
mn (momn)	Click for Set
IRR (Iranian Rial)	Click for Set

Summary Accounts

Account	Balance
Cash	-31.0 $

Top 10 Unpaid and partially paid invoices

Due date	Customer	Amount	Balance due
2019-05-24 00:00:00 UTC	testlexx	1.67 $	1.67 $
2019-05-09 00:00:00 UTC	testlexx	9.84 $	9.84 $
2019-05-03 00:00:00 UTC	testlexx	1.41 $	1.41 $
2019-05-03 00:00:00 UTC	testlexx	1.41 $	1.41 $
2019-04-15 00:00:00 UTC	testlexx	1.41 $	1.41 $
2019-04-15 00:00:00 UTC	testlexx	1.41 $	1.41 $
2019-01-31 00:00:00 UTC	testlexx	4.0 $	4.0 $

Top 10 unpaid Bills

Due date	Vendor	Amount	Payment category
2019-04-11	testlexx	-23.0	VoIP traffic category
2019-04-11	testlexx	-100.0	VoIP traffic category
2019-04-25	testlexx	-99.0	VoIP traffic category

IXC SOFTSWITCH MAIN PAGE

Includes as much useful information, as possible. It can be totally customized and you choose what key data to be displayed, when you log in.

SCALABILITY

IXC SoftSwitch is designed to accommodate the growth in service providers' networks. The product is offered as a single server installation with a capacity of up to 2000 VoIP channels. Higher capacity can be achieved through clustering.

Along with performance scalability IXC SoftSwitch can be supplied without some modules, which decrease the purchase price. You can choose if you want such modules to be supplied:

- IXC Monitoring tool
- IXC Access list
- IXC Call Generator
- SMS module

MULTIPLE ROUTING MECHANISMS

IXC System provides call routing depending on:

- Percent allocation
- Minute cost (Least Cost Routing);
- ASR/ACD/PDD Routing;
- Called party number;
- Calling party group;
- Quality Routing;
- Code in operator's tariff priority;

It also provides ability to build easily managed routing trees and change route priorities directly from them. IXC System has a hunting function, so in case if the first operator from the routing tree can't route a call, it will be automatically switched to the second operator, third operator and so on until the call is routed to the destination address.

Using IXC System the Customer can limit the number of simultaneous calls for each operator and ensure profitability or minimum profit on services provided.
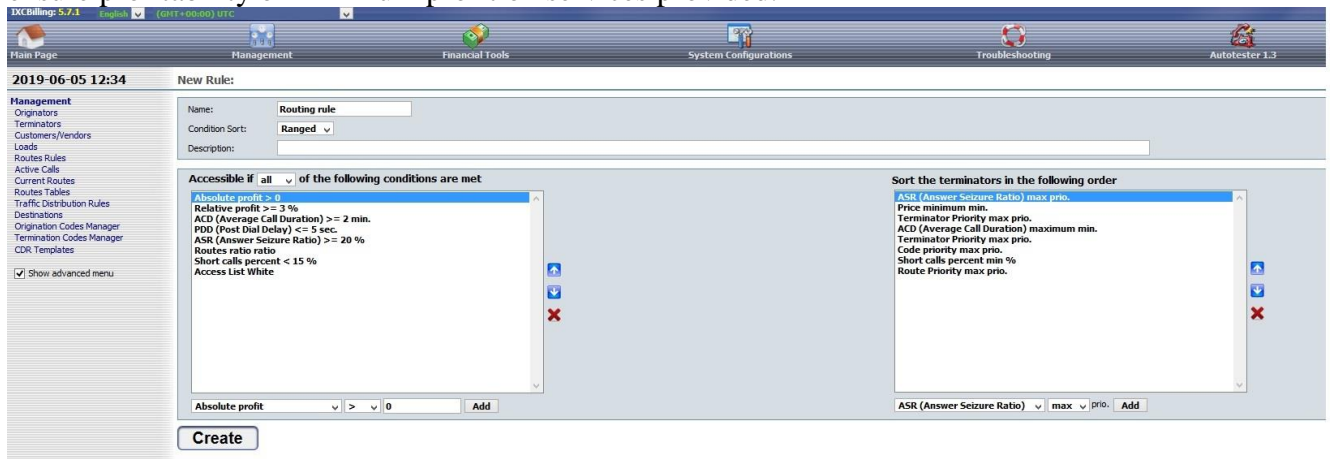
ADMINISTRATION AND CONTROL

IXC platform has system tools that offer wide abilities for monitoring of system processes:

- System loads, system processes, running tasks and so on.
- Extensive statistics analysis;
- Monitoring of disconnect causes;
- Graphical monitoring of active calls with day, week and month discreteness;
- Graphical monitoring of ASR, ACD, Profit.
- Email notifications when user adding IP for traffic
- Email notifications when user log-in to system

Administration is done via web-interface using different access rights. While creating a system user type, you can control access to view/edit/delete/add options. In that way you can create different type of access for managers that supervise client companies; administrators that monitor quality of service; company executives that are interested in financial information; analysts.

Users are divided in the system depending on their obligations.

IXC enables providing of differentiated access to users having same rights but different authority areas. Thus, IXS System offers flexible permission configuration tools that can help you separate access between the workers and make settings for every group of user, as well as decide what menus and actions will be available for them.

ONLINE BILLING AND REPORTING

The minimum access rights are given onto the CUSTOMER PORTAL, which has only information for viewing it. That access is normally given to partners for to synchronize the activities and checking.

The Owner has secure web access to billing information and settings from any PC with Internet connection. Web interface is very convenient for administrating and monitoring. Ability to assign different access rights allows administrators, managers, customers and resellers to view statistics, check balance, refill accounts etc.

System has the following billing advantages:

- multi-currency;
- real time CDRs;
- CDRs data selection option;
- CDRs customization;
- CDRs grouping: hours, days, weeks, months, years;
- Generation of CDRs in .csv and .xls files;
- Show/hide option in report information;
- Rates uploads are easily managed;
- Automatic activation of new rates;
- Option of saving old rates for further monitoring;
- Flexible rating by time of day, day of week and holidays;
- Peak and off peak time rating;
- Billing process rules for each destination;
- Postpaid and prepaid billing;
- All relevant call details for complex billing of end-users;
- Collection of statistics from AAA Radius compatible devices;
- Call tariffs backward recalculation.

Our billing provides detailed real time CDRs with wide abilities for data selection. CDRs can be customized and grouped into hours, days, weeks, months and years.
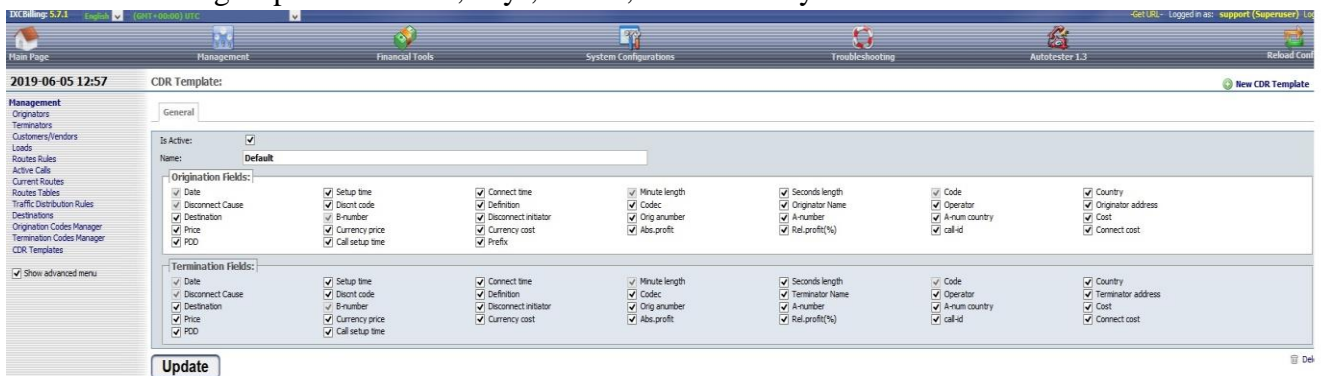
The billing offers show/hide option in report information: you can choose information that you provide to your customer or provider.

Basic system configuration also contains utilities for analyzing profitability of call routing on the basis of rate sheets of customers and service providers.

Module FINANCIAL TOOLS contains management and monitoring system with vast functionality that will provide you with centralized customer's management.

Financial tools supply you with all needed and detailed information about your clients or business partners, their accounts, consumed services, payments, invoices, payables and receivables, rendered services and so on.

Also they contain configuration tools using which you can easily manage your clients and partners, make payments and generate invoices that can be sent directly from web interface.

Financial tools can also provide you with other tools for management and monitoring such as: funds movement between services and accounts, report on invoicing comprising also profit and loss statement, report by groups, card account report and others.

RTP Handling

IXC system can handle calls in two modes:

- Signaling proxy
- Full proxy mode

You can choose the proxy type on the basis of a client or client's IP address.Full proxy mode can be used for hiding of IP addresses of service providers. The number of concurrent calls in full proxy mode up to 2000 on single server

RADIUS Accounting

IXC SoftSwitch can send to a RADIUS server call details record (CDR) for all calls going through it. The CDR records can be later exported and viewed for billing purposes.
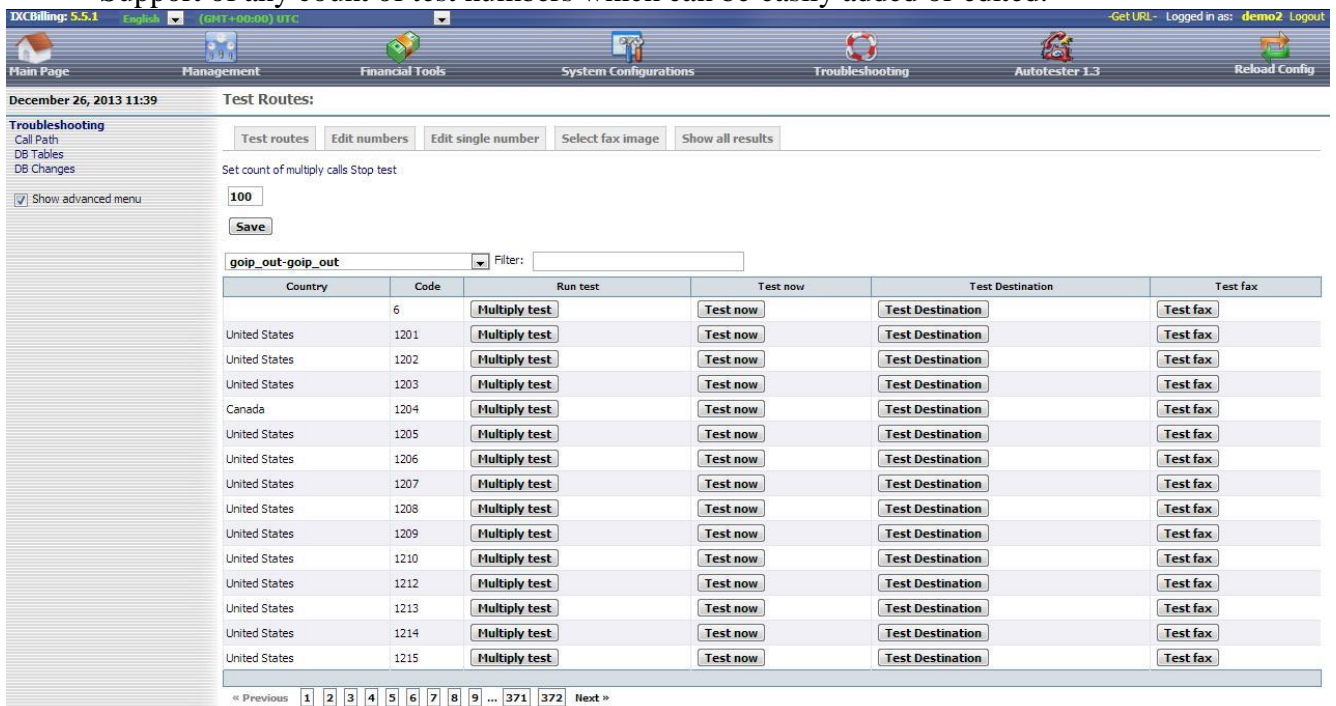
Protocol Translation and Interoperability

IXC SoftSwitch provides interoperability between vendor-specific implementations of SIP and H.323 protocols and ensures interworking of otherwise incompatible equipment. The product provides bridging of different H.323 and/or SIP implementations and two-way SIP/H.323 translation.

AUTO ROUTES TESTER

You can use the IXC auto-tester before deploying service providers calling routes. It allows seeing the history of test calls and sending it to the provider as trouble ticket. Also current platform helps you to detect FAS on the route. Key features:

- Automatically builds routing tables and origination points so you don't need to do anything in order to begin tests;
- Calls to any terminator's destination code in only 3 clicks;
- All voice answers during test calls are recorded and can be played directly on web interface;
- Call results include call set-up time and call duration;
- Calls which seem to have FAS are pointed out on web-interface;
- Support of any count of test numbers which can be easily added or edited.

ONLINE TECHNICAL SUPPORT

IXC Company provides technical support services during the whole period of IXC System operation. In case of IXC Softswitch purchase, technical support services are charged separately from product license fee and paid by the Customer on monthly basis. In case of IXC Softswitch rent, technical support fee is included into the rental package.

IXC Technical support advanced package includes:

- 24/7/365 full monitoring (network availability, HDD free space, CPU usage, Softswitch health, Active and Connected calls presence, Web server, DB health, etc). In case of issue we will do the necessary actions to resolve or to contact you with alarm (in case if server gone offline in network).
- 24/7 online chat support (email, icq, skype; 365 days)
- first priority updates with the latest fixes even outside the release (patches)
- developing of features by your request
- allows to contact directly with our developers for explaining of your wishes and other discussions about feature to be implemented
- hacking monitoring (including unique sip-stack secure mechanism with auto-block attacking IP)