BILLING SYSTEM FOR INTERNET SERVICE PROVIDERS USING MIKROTIK DEVICES
This Internet Billing System is specially made for Internet Service Providers (ISP). The system runs on MIKROTIK ROUTERS only and is used for managing PRE-PAID customers.

Highlights include creating multiple user/admin accounts, Dynamic Access Levels for users, assigning customers into service plans for easier set up, receiving reports, activating or deactivating service plans remotely and automatically.
Our mission

Our goal is to create a flexible, easy to use, automated billing system for ISPs using MIKROTIK ROUTERBOARDS to manage pre-paid customers. The system has successfully been tested and implemented by an ISP in Mongolia.
Who uses the system?

User: Internet Service Providers (ISPs)

Customers: End-users
1. SYSTEM MAIN PROCESS

Registering
- User Information
- Service Plans
- Devices
- Payment/Extension
- Customer Information

Reporting
- By customer
- By revenue
- By service package
- General statistics and charts

Setting up
- User
- Devices

Communicating
- Receiving requests and feedbacks and inquiries
- Sending messages to individuals or groups

Customer
- View and edit personal information
- View internet usage month by month
- View payment history and bills

ISP BILLING SYSTEM
REGISTERING

Creating, editing, deleting and managing accounts for everybody involved. Available for view and print.

**PAYMENT**
- View customer payment history for each plan
- Extend service automatically

**USERS**
- Register users and enter information
- Can register Specify access level for users (Dynamic access levels)
- multiple types of users

**DEVICES**
- Register, configure, set up and manage devices

**SERVICE PLANS**
- Create different plans for customers depending on service speed and price
- Speed up registering process by assigning customers to plans instead of specifying speed and price for each customer

**CUSTOMERS**
- Create different customer accounts for individual users or organizations.
REPORTING

Filtered or comprehensive account information and lists are available for printing and converting to other formats

REVENUE REPORT
View customer payment history, bills and others
Filter by payment method, date, customer type
Convert data to Excel file

CUSTOMER REPORT
Categorize and view by customer type (individual or organization), service package, status, devices registered on.
Convert data to Excel file

SERVICE PLAN REPORT
Create and monitor different service plans
Extend service by days or for free
View extension history
Print and convert to Excel file
SETTING UP

Configuration options are available for all registrations, accounts and lists

For Users
Set up user accounts and manage access

For Devices
Set up and configure all related devices

Others
Necessary system and network settings

For Service Plans
Create service plans, defining duration, speed and other details
CUSTOMERS

1. View and Edit personal information
2. Monitor Internet usage, Month by Month
3. View Payment History and Bills
4. Send messages, feedbacks, inquiries etc
2. CONNECTION

How to connect to MIKROTIK ROUTERS?

Getting ready to connect the Billing system and MIKROTIK devices:
Billing system and MIKROTIK devices are all on same network.

Create an API user on device

Activate API controller port on device

On Billing system:
Choose interfaces available for hotspot

Create service plans and add users
### CONNECTION

![ISP BILLING SYSTEM](image-url)
3. SYSTEM MENU

The billing system menu offers following options:

- Network and Device manager
- Service package
- Customer manager
- Bank account information
- User manager
- Payment information
- Extension
- Message
- Banner
- Set up
DASHBOARD
Statistics and Charts on front page

- Number of customers registered on each equipment
- Monthly changes in number of customers
- Number of active customers in each service package
- Daily list of expired customer accounts, pending and non-paid bills
Connects user automatically to each MIKROTIK ROUTES, allowing remote control.

Can also report router status.

Current version:
MIKROTIK ROUTEROS Version: V6.33
ISP Billing System Version: 1.0.1
NETWORK AND DEVICE MANAGER
PAYMENT INFORMATION

Allows user to manage customer bills and payments to automatically activate and deactivate service. Contains data on revenue and customer status.

This menu includes options allowing users to manage customer payments and automatically activate or deactivate their service plans. Payment information include customers’ payment method, bills due, historical data on payment dates, dates of service activation or deactivation, associated MIKROTIK DEVICES and users responsible. Users can also filter by the above categories and print or convert lists into other formats.

- ✔ Record Revenue
- ✔ Automatically activate service plan after confirming payment
- ✔ Monitor revenue and service plan performance
PAYMENT INFORMATION

ISP BILLING SYSTEM
EXTENSION
Extend service by days

Allows user to extend service not by a month, but by any number of days.

- It can be used for offering trials or rewards to customers free of charge. Any service package can be extended by days if necessary.
- Management and control is made easier by a comprehensive list of all extensions made in days. Users can view which users made extensions, and for how many days.
EXTENSION BY DAYS
Register each user on the network and specify their access rights. Each user can have access to different menu options. The system offers DYNAMIC ACCESS CONTROL and any number of users can be registered.

All necessary user information can be stored in their accounts and is available for editing, viewing, printing and converting.
USER MANAGER
Enter bank account details to create payment information

Customer Manager
To enter and manage all information related to customers

Service Packages
Create different service packages with different prices and speed

Messages
Send messages to customers, or receive feedbacks, requests, complaints and inquiries

Banner
Place desired banners on the admin panel log page
Your contributions

Current version:

MIKROTIK ROUTEROS Version: V6.33
ISP Billing System Version: 1.0

If you need our help, contact us

We need your help too so send us feedback

Upgraded version, better system, more capabilities and functions coming soon
БАЯРЛАЛААА!
TOPICA LLC
Chingeltei district, 1 khoroo, 3-A office,
“Topica LLC” XXK, Ulaanbaatar, Mongolia

CONTACT US

enkhdelger@topica.mn
976 +70125001
WWW.TOPICA.MN