

## BreezeMAX<sup>™</sup> Service Manager

**User Manual** 

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# 1 Introducing the BreezeMAX Service Manager Window

The BreezeMAX Service Manager provides operators and service providers with Remote Authentication Dial-In User Service (RADIUS) authentication capabilities of BreezeMAX CPEs. The information of every CPE that registers to a Base Station that is connected to the server is authenticated by the Service Manager. Following authentication, the Service Manager authorizes or rejects access to the system and records all authentication attempts in its log file.

## 1.1 Specifications

| Item                        | Description   |  |  |
|-----------------------------|---|--|--|
| Operating System            | One of the following:   |  |  |
|                             | ■ Windows TM 2000 Professional SP4                            |  |  |
|                             | ■ Windows TM 2000 Server SP4                                  |  |  |
|                             | ■ Windows TM 2003 Server SP2                                  |  |  |
|                             | ■ Windows TM XP SP2   |  |  |
| Hardware                    | ■ Workstation Pentium II-266 and above                        |  |  |
|                             | ■ Hard Disk 100MB free disk space                             |  |  |
|                             | ■ Floppy and CD ROM CD drive, 3.5" floppy drive (1.44 Mbytes) |  |  |
|                             | ■ Memory 128MB RAM  |  |  |
|                             | ■ 10BaseT Ethernet port                                       |  |  |
|                             | ■ Mouse, Keyboard Microsoft TM or compatible                  |  |  |
| Max number of CPEs          | 10,000  |  |  |
| Max number of Base Stations | 10  |  |  |

## Installing the BreezeMAX Service Manager Utility

The executable file (Setup.exe) is available in the CD package.

Run the executable file and follow the instructions to install the Service Manager on your PC.

## To uninstall the Service Manager:

Run the Setup.exe file and select **Remove**. The database and configuration files are not deleted, however, it is recommended to back up these files prior to removing the application.

## To back up your database and configuration files:

Copy the database file (ServiceManager.*mdb*) and configuration file (*saved.cfg*) to a safe location. The files' default location is: c:\Program Files\ServiceManager. To restore the files, simply copy them back into the folder (after reinstalling the utility).

## 3 Starting the Application

## To start the Service Manager:

From the Windows *Start* menu, select *Programs > Service Manager > Service Manager*, or click on the Service Manager Icon on the Desktop. The *Service Manager* is activated and runs in the background.

## To access the Service Manager window:

1 Double-click on the Service Manager icon in the Taskbar Notification Area.



Figure 1: Service Manager Icon on Taskbar

You will be prompted to enter a password.



Figure 2: Enter Administrator Password Window

2 Enter the Administrator Password and click on **Unlock** (or the **Enter** on the keyboard). The default password is *serveradmin*.

The Service Manager window is displayed, as shown below.

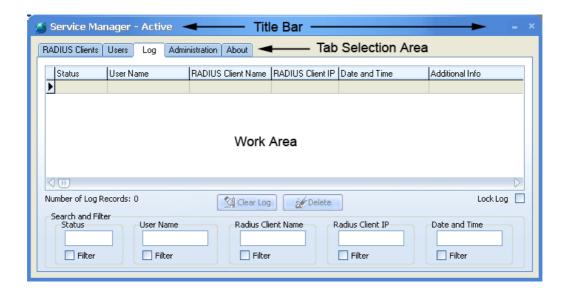
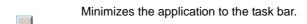


Figure 3: Service Manager Typical Window

The Service Manager Main window comprises the following components:

■ Title Bar: Identifies the application's name and the service status (see Section 7). It also includes the following icons for minimizing or closing the application:



- Closes the application window. The Service Manager will continue running in the background and the application's icon will be active in the Taskbar Notification Area.
- Tab Selection Area: The Tab Selection Area comprises the following tabs, each corresponding to a work area displaying a specific group of parameters:
  - ♦ "RADIUS Clients," Section 4
  - ♦ "Users," Section 5
  - ♦ "Log," Section 6
  - ♦ "Administration," Section 7
  - ♦ About displays the version of the application.
- Work Area: The display of this area varies depending on the selected tab.

## 3.1 Closing the Application



Click on the **Close** button. The application window closes and the Service Manager continues running in the background. To access the application again, double-click on the icon in the Taskbar and enter the administrator password.

## To stop the Service Manager and exit:

- 1 Right-click on the Service Manager icon on the taskbar and select Exit from the menu.
- 2 Enter the Administrator Password (see Figure 2) and click on **Unlock** (or the **Enter** on the keyboard). A confirmation message appears.



Figure 4: Stopping the Service Manager - Confirmation Message

## 3.2 Working with Tables

In each table, the columns can be rearranged by dragging them from their current location and dropping them in the desired location.

By default, tables are sorted by name in ascending order and can be sorted according in either ascending or descending order. To sort the table, right-click anywhere in the table and select the sorting order.

All table display changes are applicable to the current session only. After exiting the application, the settings will revert to default on the next entry.

## 4 RADIUS Clients

The *RADIUS Clients* tab displays the list of NPUs/Micro Base Stations connected to the server.

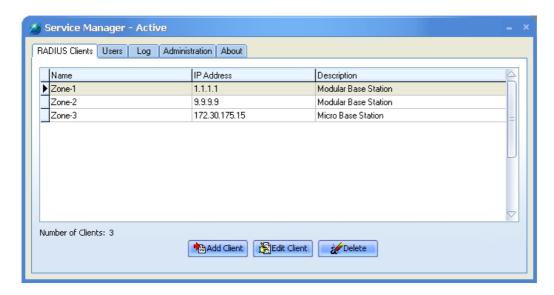


Figure 5: RADIUS Clients Tab

The following information is displayed for each client:

| Name        | The name of the NPU/Micro Base Station. The client name is astring of up to 255 printable characters and must be unique in the system. You can enter any name. It is recommended to enter the device name. |
|-------------|--|
| IP Address  | The IP address of the Data/Management port of the NPU/Micro Base Station.  |
| Description | An optional description of the NPU/Micro Base Station. A string of up to 50 printable characters.  |

The number of defined clients is displayed at the bottom left corner.



#### **NOTE**

The NPU maintains a keep alive mechanism with all defined servers. The Keep Alive Timeout defines the time in seconds to wait before reaching a decision that a certain server is no longer available. When the NPU sends a keep alive message to the RADIUS server, it uses its own default User Name and Password (*KeepAliveUserNameAndPassword* for both). This user name and password must be defined in the RADIUS Clients list, otherwise the server will send reject messages.

From the RADIUS Clients tab, you can add, edit, and remove clients.

## 4.1 Adding a Client



#### To add a new client:

1 In the RADIUS Clients tab, click on the **Add Client** button. The *Add RADIUS Client* window is displayed.



**Figure 6: Add Client Window** 

2 In the appropriate fields, enter the NPU's/Micro Base Station's name, IP address, shared secret and optionally a short description.



#### **IMPORTANT**

The shared secret is a string of up to 16 printable characters (case sensitive) that serve as the password for ciphering traffic. The shared secret must match the one defined in the NPU. If they do not match, the request will be rejected.

In the Confirmation field, re-enter the shared secret to confirm it.

3 Click **OK** to apply or **Cancel** to close the *Add Client* window without saving.

## 4.2 Editing a Client



#### To edit an existing client:

1 In the RADIUS Clients tab, select a client from the list and click on the Edit Client button.

OR

Double-click on a row in the RADIUS Clients tab.

The Edit Client window is displayed for the selected client.

**2** Edit the fields as required and click **OK** to apply the changes.

#### **NOTE**



You can also click twice in any of the cells to edit that cell.

## 4.3 Removing a Client



#### To remove a client:

- 1 In the *RADIUS Clients* tab, select a client from the list and click on the **Delete** button. You will be asked to confirm your request to delete the record.
- **2** Click **Yes** to confirm the deletion, or **No** to cancel the request.

## 5 Users

The *Users* tab displays the list of Subscriber Units (SU) that are connected to the server.

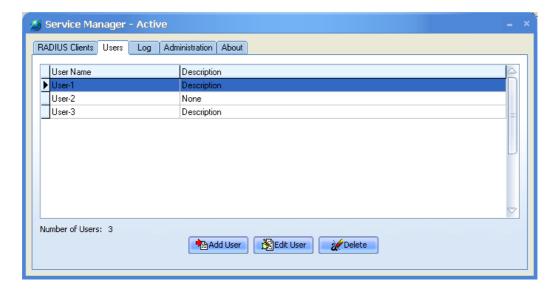


Figure 7: Users Tab

The following information is displayed for each Subscriber Unit (SU):

User Name The name of the SU as defined in the SU. The User name is a string

of up to 32 printable characters and must be unique in the system. You can select either case sensitive or case insensitive (see

Section 7). If the User Name does not match the one defined in the

SU, the request will be rejected.

Description An optional description of the SU. A string of up to 50 printable

characters.

The number of SUs defined is displayed at the bottom left corner.

From the *Users* tab, you can add, edit, and remove SUs.

## 5.1 Adding a User



#### To add a new user:

In the *Users* tab, click on the **Add User** button. The *Add User* window is displayed.



Figure 8: Add User - User Parameters Tab

The *Add User* window comprises two tabs: *User Parameters* and *User Attributes*. Enter the required information in both tabs before clicking the **OK** button.

#### **5.1.1** User Parameters

The User Parameters tab comprises the following fields:

Name The name of the SU. See Section 5.

Password The SU's password. The password must be identical to the one

defined in the SU. A string of up to 32 printable characters (case

sensitive).

Description An optional description of the SU. See Section 5.

#### 5.1.2 User Attributes

The *User Attributes* tab enables to define the services to be provided to the SU and the timeframe for renewing them. The configured attributes are displayed in the attributes table in the upper pane.

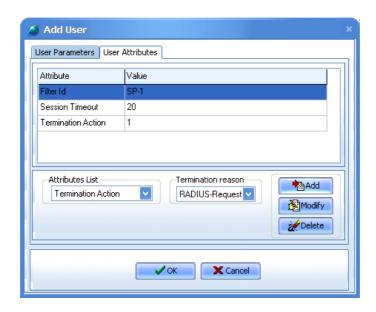


Figure 9: Add User - User Attributes Tab

The available attribute types are:

Filter Id The Service Profiles defined for the SU (see Section 5.1.2.1).

Session Timeout

The defined interval (in seconds) for the SU authentication. Upon expiration, the session is terminated. To renew the services, the NPU must send an authorization request on behalf of the SU to the Service

Manager at the defined intervals (see Section 5.1.2.2).

Session Timeout and Termination Action must both be configured. Otherwise, the request is ignored.

Termination Action

The reason for termination: Default, RADIUS-request.

Session Timeout and Termination Action must both be configured.

Otherwise, the request is ignored.

#### **NOTE**



When attributes are defined, you can edit or delete them by selecting the attribute in the attributes table, modifying the fields as required, and clicking the **Edit** or **Delete** buttons.

### 5.1.2.1 Defining Services (Filter Ids)



#### To define a service for the SU:

- 1 Select Filter ID from the Attributes List.
- **2** Enter the Service Profiles for the SU. Service Profiles can be conjoined to a single Filter Id. Up to 16 VLANs can be defined.

The Filter ID between the Radius Server and the NPU is as follows:

```
n=Service Profile Name 1:v=<VLAN list up to 16 VLANs>
```

:h=ON/Off

:a=<Off or On, VLAN ID>

:c=ON/OFF;

n=Service Profile Name 2:....up to 5 Service profiles per user.

Where: n = Service Profile Name v = VLAN list h = hybrid a = access VLAN, c = classification.

Remark: v=<> is empty VLAN list and deletes the previous provisioned VLANs.

";" separates between service profiles.

For example:

```
n=be_96:v=<8,4,100,22>:h=ON:a=<ON,433>:c=ON;
n=be_128:v=<22>:h=OFF:a=<OFF>:c=OFF;
```

#### **NOTE**

The Service Manager does not check the validity or the format of the entered service profiles. In case of an invalid entry, the NPU will ignore the request.

3 Click on **Add** to add the service to the list of attributes.

## 5.1.2.2 Defining Session Timeout

To renew the services, the SU must send an authorization request to the Service Manager at the defined intervals.

Session Timeout and Termination Action must both be configured. Otherwise, the request is ignored.



#### To define the session timeout:

- 1 Select **Session Timeout** from the Attributes List field.
- **2** Enter the session timeout (in seconds).



#### NOTE

The minimum timeout limit is 600 seconds. The Service Manager applies any value below 600 as 600.

3 Click on the **Add** button to the right. The newly defined attribute is displayed in the table in the upper pane.

#### **5.1.2.3** Defining the Termination Action

The termination action attribute defines the action to be performed upon session timeout. The possible actions are:

- Default default termination disconnects the services when Session Timeout is reached. When selected, the value displayed in the attributes table will be 0.
- RADIUS-request At every Session Termination interval, the new Filter Id request is sent to the Service Manager. If there is any change in the requested services, the current services are disconnected and re-connected with the new services. If there is no change in the request, the SU can continue without being disconnected. When selected, the value displayed in the attributes table will be 1.

## 5.2 Editing a User



#### To edit an existing user:

1 In the *Users* tab, select a user from the list and click on the **Edit User** button.

OR

Double-click inside a cell in the *Users* tab.

The Edit User window is displayed for the selected SU.

2 Edit the fields in the *User Parameters* and *User Attributes* tabs as required and click **OK** to apply the changes.

#### NOTE



You can also click twice in any of the cells to edit that cell (User Name and Description only).

## 5.3 Removing a User



#### To remove a user:

- 1 In the *Users* tab, click on the **Delete** button. You will be asked to confirm your request to delete the record.
- 2 Click **Yes** to confirm the deletion, or **No** to cancel the request.

## 6 Log

The *Log* tab displays a list of all authentication attempts by SUs defined in the Service Manager. The display is updated whenever an SU attempts authentication.

#### **NOTE**



The NPU maintains a keep alive mechanism with all defined servers. The Keep Alive Timeout defines the time in seconds to wait before reaching a decision that a certain server is no longer available. When the NPU sends a keep alive message to the RADIUS server, it uses its own default User Name and Password (*KeepAliveUserNameAndPassword* for both). This user name and password must be defined in the RADIUS Clients list, otherwise the server will send reject messages.

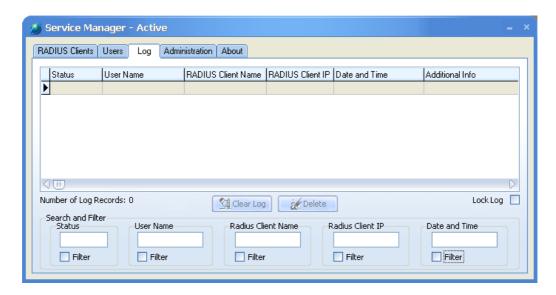


Figure 10: Log Tab

The following information is displayed for each entry:

| Status             | The status type of the authentication request: Accept/Reject/Unknown. The status types logged depend on the types set in the Administration tab. See Section 7. |
|--------------------|---|
| User Name          | The name of the SU as defined in the SU.  |
| RADIUS Client Name | The name of the NPU/Micro Base Station  |
| RADIUS Client IP   | The IP address of the Data/Management port of the NPU/Micro Base Station.   |
| Date and Time      | The date and time of the authentication attempt.  |
| Additional Info    | For records with Reject or Unknown status, displays the reason for authentication failure.  |

The number of log records is displayed below the log table on the left. This reflects the total number of logged records, even when filtering the display.

From the Log tab you can delete entries, clear the log, lock the log refresh, and filter the display.

## 6.1 Deleting Log Entries



#### To delete an entry:

1 Select the entry to be removed from the list.

- 2 Click on **Delete**. A confirmation message appears.
- 3 Click on **OK** to confirm the deletion.

## 6.2 Clearing The Log

You can clear the log from all entries by clicking on the Clear Log button.

## 6.3 Locking The Log

You can lock the log clicking on the Lock Log check box. New entries will not be displayed in real time as long as the Lock Log box is checked. To refresh the display and revert to real time updates display, uncheck the Lock Log box.

## 6.4 Filtering The Log Display

You can search for a specific entry, or filter the display according to any of the predefined filters. The available filters are: Status, User Name, RADIUS Client Name, RADIUS Client IP, and Date and Time.



#### To filter the displayed entries:

- 1 Check any of the Filter boxes (one filter at a time).
- **2** Enter the string to search in the selected field of all of the entries.



#### **NOTE**

Repeating this procedure applies the filter on the entire list and does not filter further the already filtered list

## 7 Administration

The *Administration* tab enables to configure the log file, define the Server port to be used for authentication, defragment the database and change the password.

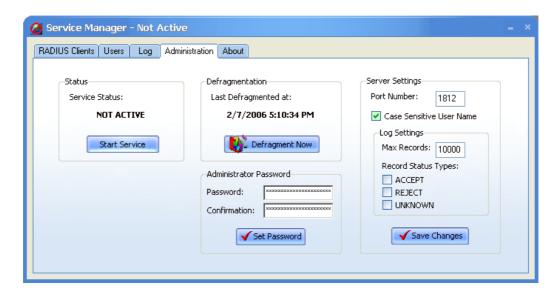


Figure 11: Administration Tab

The *Administration* tab comprises the following parameters:

| Status                 |  |  |
|------------------------|--|--|
| Service Status         | The service status. Active/Not Active. Click on the Start/Stop Service to toggle between the two options. The status is displayed in the Title Bar, as well. To change any of the fields in the Administration page, set the status to <b>Not Active</b> . |  |
| Defragmentation        |  |  |
| Last Defragmented at:  | A display of the date and time of the last database defragmentation.   |  |
| Defragment Now         | Enables to defragment the database. It is recommended to defragment the database once a month. Click on the Defragment Now button to begin defragmentation.  |  |
| Administrator Password |  |  |
| Password/Confirmation  | Enables to change the password. Enter a new password in the Password field. Reenter the password in the Confirmation field and click on Set Password.  |  |
| Server Settings        | Click on Save Changes to apply the changes in server settings.   |  |
| Port Number            | Defines the UDP port to be used for authentication. The port must match the one defined in the NPU for the Data/Management port used.  |  |
|                        | The range of available ports is: 1-65535   |  |
|                        | The default port is: 1812  |  |
|                        | After setting the port number, click on the Save Changes button.   |  |
|                        |  |  |

| Case Sensitive User<br>Name | Defines whether or not the user name is case sensitive. When enabled the user name must match in case the defined user name.  |  |
|-----------------------------|---|--|
| Log Settings                |   |  |
| Max records to log          | Defines the maximum records to log. When the maximum number of records is reached, the Service Manager deletes the oldest records to make room for the newer records.                       |  |
|                             | The maximum number of records is 10,000.  |  |
|                             | The default is: 10,000.   |  |
| Log records type            | Defines the type of records to log. The available types are: Accepted, Rejected, Unknown (i.e., packets from non-listed clients). If none of the types is selected, nothing will be logged. |  |
|                             | After setting the log parameters, click on the <b>Save Changes</b> button.  |  |