Brekeke SIP Server
Using a Third Party Database Tutorial

Brekeke Software, Inc.

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1. Introduction

This document describes steps needed to use a third party database instead of using the embedded database in Brekeke SIP Server. You can add or modify the database from your own database management tool. Here is an example using MySQL.

Note: Other databases can be used in a similar way.

2. Using MySQL for Brekeke SIP Server

The following section describes the steps to use MySQL with Brekeke SIP Server.

1. Open a MySQL command line window and create a database (for example "ossdb").

    mysql> create database ossdb;

2. Create a table "t_registered" and indexes using the commands below: (This table stores the data of registered user agents.)

Note: If you upgraded from version 1.X to 2.X you will need to add the last two lines for useragent and param, as shown in the table below.

CREATE TABLE t_registered
(

skey	BIGINT,
namealias	VARCHAR(300),
nameoriginal	VARCHAR(300),
urlalias	VARCHAR(300),
urloriginal	VARCHAR(300),
acceptpattern	VARCHAR(300),
requester	VARCHAR(100),
expires	BIGINT,
priority	INT,
timeupdate	BIGINT,
expirestime	BIGINT,
mappedport	VARCHAR(100),
awake	INT,
useragent	VARCHAR(300),
param	VARCHAR(300)

);

CREATE INDEX idx_registered_skey ON t_registered(skey);
CREATE INDEX idx_registered_urlalias ON t_registered(urlalias);
CREATE INDEX idx_registered_urloriginal ON t_registered(urloriginal);
CREATE INDEX idx_registered_expirestime ON t_registered(expirestime);

3. Create a table "t_userdir" and indexes using the commands below.
    (This table stores authentication data of users.)

```
CREATE TABLE t_userdir
(
            uid         BIGINT,
            username    VARCHAR(100),
            longname    VARCHAR(200),
            password    VARCHAR(100),
            email       VARCHAR(100),
            description VARCHAR(200),
            gid         BIGINT,
            timeexpire  BIGINT,
            timemake    BIGINT
    );

CREATE UNIQUE INDEX idx_userdir_uid ON t_userdir( uid );
CREATE INDEX idx_userdir_username ON t_userdir( username );
CREATE INDEX idx_userdir_timeexpire ON t_userdir( timeexpire );
```

4. Obtain the latest JDBC driver for MySQL "MySQL Connector/J" from
    http://www.mysql.com/products/connector/j/
➢ Copy the file "mysql-connector-java-3.0.XX-ga-bin.jar" into the lib
    directory pbx_install_dir\webapps\pbx\WEB-INF\lib

| Dial Plan | Registered Clients | Active Sessions | Call Logs | **Configuration** |

| System | SIP(General) | SIP(Advanced) | RTP | Database |

Configuration

Embedded Database

Port Number [   ]

Thirdparty Registered Database

On/Off [off ▼]

Registered Database URL [   ]

Registered Database Driver [   ]

User Name [   ]

Password [   ]

Thirdparty Users Database

On/Off [off ▼]

Users Database URL [   ]

Users Database Driver [   ]

User Name [   ]

Password [   ]

5. Go to **Brekeke SIP Server > Configuration > Database** and insert the following information:

Registered Database
[On/Off]   Select "on" to enable Registered Database
[Registered Database URL]   URL for the Registered Database.
                                     (for example jdbc:mysql://localhost/ossdir)
[Registered Database Driver]   JDBC Driver for the Registered Database
                                     (for example com.mysql.jdbc.Driver)
[User Name]   User name for the 3rd party database
[Password]   Password for the 3rd party database

Users Database
[On/Off]   Select "on" to enable Users Database
[Users Database URL]   URL for the Users Database.
                                     (for example jdbc:mysql://localhost/ossdir)
[Users Database Driver]   JDBC Driver for the Users Database
                                     (for example com.mysql.jdbc.Driver)
[User Name]   User name for the 3rd party database

[Password]   Password for the 3rd party database

To record user passwords in plain text in the "t_userdir table", add the following line in the sv.properties file:

net.userdir.cryptpw=false (Passwords are encrypted by default)

6. Save your work.

7. Restart your machine.

3. Troubleshooting

If you receive the error message "Can not open a database" at Brekeke SIP Server's Admintool, you can usually see some detailed error message which is related to the database connection in the file pbx_install_dir\webapps\pbx\WEB-INF\work\logs.log.

For technical support, the Brekeke Technical Support Forum is available for help with configuration of Brekeke products. For more information, visit our website at www.brekeke.com.