Maintenance

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Database

The Restcomm SMSC creates three tables for every new day to store data relevant to the messages scheduled for delivery on that day, as explained in [_database_table_structure]. These tables need to be dropped periodically else the tables may end up occupying huge disk space.

You can choose to drop these tables manually or configure the Gateway to drop the tables periodically. To configure these settings, you can make use of the parameters `removinglivetablesdays` and `removingarchivetabledays`.

> By default, Cassandra Database creates snapshots of tables prior to dropping them. Therefore the disk space is not cleared upon dropping the tables. To overcome this, you must update the *cassandra.yaml* configuration file and set the value of `auto_snapshot` to false.

Automatically drop tables

Using CLI

You can configure the auto-drop settings by issuing the command `smsc set removinglivetablesdays` for LIVE tables and the command `smsc set removingarchivetabledays`, with appropriate parameters as described below. You can verify this by issuing the command `smsc get removinglivetablesdays` and `smsc get removingarchivetabledays` which will display the values set for these properties.

```
Name
    smsc set removinglivetablesdays

SYNOPSIS
    smsc set removinglivetablesdays <value>

DESCRIPTION
    This command is used to configure the SMSC to automatically drop LIVE tables from
    the Cassandra Database. The SMSC will attempt to delete tables just after
    midnight and after every SMSC restart.

PARAMETERS
    removinglivetablesdays      - This parameter is used to specify the number
                                  of days the LIVE tables should be kept before
                                  attempting to drop them automatically.

                                  If this value is specified as "0", the SMSC
                                  will not drop tables automatically. In this case
                                  you must manually drop tables.

                                  You must specify a value of 3 or more. You can
                                  not set this value to 1 or 2 days. This is to
                                  ensure the tables will be kept for a minimum
                                  of 2 days after creation date.

                                  The SMSC wil attempt to delete tables for one
                                  day. If the Cassandra Database keeps tables for
                                  older days, then the administrator should drop
                                  these manually.
```

```
Name
    smsc set removingarchivetabledays

SYNOPSIS
    smsc set removingarchivetabledays <value>

DESCRIPTION
    This command is used to configure the SMSC to automatically drop ARCHIVE tables
    from the Cassandra Database. The SMSC will attempt to delete tables just after
    midnight and after every SMSC restart.

PARAMETERS
    removingarchivetabledays    - This parameter is used to specify the number
                                  of days the ARCHIVE tables should be kept before
                                  attempting to drop them automatically.

                                  If this value is specified as "0", the SMSC
                                  will not drop tables automatically. In this case
                                  you must manually drop tables.

                                  You must specify a value of 3 or more. You can
                                  not set this value to 1 or 2 days. This is to
                                  ensure the tables will be kept for a minimum
                                  of 2 days after creation date.

                                  The SMSC wil attempt to delete tables for one
                                  day. If the Cassandra Database keeps tables for
                                  older days, then the administrator should drop
                                  these manually.
```

Manually drop tables

If you do not want the SMSC Gateway to automatically drop tables you must set the value of the parameters `removinglivetablesdays` and `removingarchivetabledays` to zero and disable this feature as explained in the preceding section.

You must decide on how much data you would like to retain in the Database and accordingly delete the tables. However you must take precaution to not delete the tables for today or a future date. All tables that store data for dates less than the current date may be safely deleted from the database without stopping the SMSC.

To delete the tables manually you must run the required commands via Cassandra CQL3 as in the examples below:

```
DROP TABLE DST_SLOT_TABLE_2014_01_05;
DROP TABLE SLOT_MESSAGES_TABLE_2014_01_05;
DROP TABLE MESSAGES_2014_01_05;
```