

# Configuration Guide

**VDS-II ED137**

**CrdDB**

# Voice Recording System VC-MDX

Version 2005

## Introduction

This document described all the parameters which can be used on the VDS-II ED137 to configure/tune the deletion of Crd data.

## Purpose

This document describes the configuration of the VDS-II ED137 for the CrdDB.

## Acronyms and Abbreviations

CRD	Call Related Data
VDS	VoIP Decoding System (ATIS)

## VDS-II-ED137 CrdDB overload protection

### Ticket deletion

The ticket deletion is done in 2 steps.

- TTL deletion
- Overload protection

Both actions are always done.

It could happen on high duty system that both actions could be called or on System incorrectly configured.

If TTL deletion is correctly set the value used should prevent the triggering of the second procedure.

### TTL (Time To Live)

The time to live defines the maximum time the ticket will be stored in to the database the default value is set to 0 which means indefinitely.

This time is defined in days.

If the Time to live is configured on the recorder, the configuration of the TTL on the VDS should be used. We recommend using the same value as the recorder plus one or two days.

### Overload Protection

This protection will prevent the database to reach its maximum capacity by deleting oldest tickets. It is defined using several parameters.

#### Database size

- This depends on the partition allocated to the database, number of database etc...
- As a default 4GB is used
- Usually the database partition is 10GB with recorderDB and CrdDB
- (4GB per database + 2GB for the database engine and files).

#### Deletion trigger

- Percentage of the database size above which the deletion will occur
- The default value is 85 percent. This value should be the maximum used to leave some space for transaction logs.

## Deletion check Delay

- Delay in minutes between checks (default 1 min)

## TTL rows to delete (1000)

- How many rows maximum can be deleted when TTL check is run.

## Size rows to delete (default 1000)

- How many rows maximum to be deleted when check for database size is run.

When debug logging mode is enabled on the VDS, more printout about checking process is printed out

- Number of entries since last call of the procedure  
*entries in last minute : 0*
- TTL check with number of days configured  
*checking TTL deletion for tickets older than 15 days*
- Physical size of CrdDB  
*checking size.....  
database physical size=203.88 MB*
- Actual data size of CrdDB  
*database data size =83712 KB*
- Actual percentage load  
*actual percentage 1.9958496% load (85721088/4294967296)*

Enabling the debug mode can help tuning the values for better efficiency.

When deletion occurs a warning log is generated.

Critical Database Threshold reached actual percentage : 2.5283813% threshold : 2%

STORAGE safety : deletion of 1000 oldest tickets

For preventing overload the number of last entries between checks is added to the number of tickets deleted.

```
entries in last minute : 9
checking TTL deletion for tickets older than 15 days
checking size.....
database physical size=203.63 MB
database data size =105536 KB
actual percentage 2.5161743% load (108068864/4294967296)
Critical Database Threshold reached actual percentage : 2.5161743% threshold : 2%
STORAGE safety : deletion of 1009 oldest tickets
```

## Configuration

This configuration must be done in the database connector defined in the VDS spring-config.xml file.

Any value not set will use default value

```
<bean id="crd" class="com.atissystems.RTSPRecorderServer.DBConnection.MicrosoftSqlDBConnector" init-  
method="init" >  
    <property name="url" value="jdbc:sqlserver://xxx.xxx.xxx.xxx\SQLEXPRESS" />  
    <property name="userName" value="xxxxx" />  
    <property name="password" value="xxxxx" />  
    <!-- Crd Database data size default 4GB -->  
    <property name="sizeDB" value="4GB" />  
  
    <!-- Deletion trigger (percentage of Crd Database data size ) -->  
    <property name="deletionThresholdPercentage" value="85" />  
  
    <!--crd time to live in Days -->  
    <property name="ttl" value="90" />  
  
    <!--time between checks in minutes -->  
    <property name="deletionCheckDelayInMin" value="1" />  
  
    <!--maximum number of rows to delete during ttl check -->  
    <property name="ttlRowsToDelete" value="1000" />  
  
    <!--maximum number of rows to delete on overload check -->  
    <property name="sizeRowsToDelete" value="1000" />  
  
</bean>
```

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