

## Overview

The loss of an HLR can be catastrophic event for a cellular network. Subscribers homed to that HLR are, in effect, out of service. The centralized, stand-alone Home location register in GSM can be a potential bottleneck. Besides, in case of the location database failure, incoming calls can be lost. Therefore, it is of utmost importance that the HLR be highly available. Hence, it is highly recommended to replicate the HLR in order to increase its capacity and reliability. On the flip side, replication of HLR results in data inconsistency.

Netxcell's HLR management solution is an efficient solution to find mismatches and rectify them. This feature will help improve the accuracy of the operators' database enhancing customer loyalty, thus creating a WIN-WIN situation for all.

Netxcell's HLR management solution will be used to update the database of secondary HLR with Primary HLR. The synchronization takes place for the below scenario:

- Subscriber Database Synchronization
- IMSI Database Synchronization

Netxcell's solution will thus ensure that the secondary database is kept in sync with the primary database from time to time. This will remove the issue of data inconsistency thus enhancing reliability and accuracy.

## Features

- Redundancy at both hardware and software levels
- The solution mainly consists of two physical servers with similar configurations which run in 1+1 active-standby mode
- Error Handling (HLR Dump is incomplete, HLR command session errors)

## Benefits

- Up to date secondary HLR that is always in sync with the primary HLR
- In case of a failure of primary HLR, the secondary HLR can be immediately made live without any down time
- Highly Available HLR
- Helps improve the accuracy of the operators' database enhancing customer loyalty
- Subscribers' information is replicated 100% to ensure data security
- Subscribers are always ensured service even in case of an HLR disaster