

# Sample Storage Management System: Backups

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This document presents the organization of the SMS backups. All the backups are done automatically by scripts, and the backup files are saved on another server. The results of RMAN and shell backup scripts are sent by e-mail to the SMS administrators.

## **1 - Server backups**

### **1.1 - Database server**

The Oracle engine configuration and the Linux system are backed up once a week, using a combination of archiving and compression commands.

If some important changes are done on the system or in Oracle, a complete image backup is done with Acronis, a Backup and Recovery software.

### **1.2 - Application server**

The Windows Operating System is backed up once a week with the windows backup and restore utility NtBackup.

The Oracle configuration is saved into archive files, once a week, with a combination of batch and perl scripts.

The application files such as forms, libraries, menus, ..., are saved into an archive file once a week.

## **2 - Data backups**

The Oracle Recovery Manager (RMAN) is used to perform a full database backup once a week, incremental backups being done every day. The database is never stopped thanks to the archive log mode, which allows hot backups. The frequency of incremental backups can easily be adjusted, depending on the volume of transactions.