

# Successful SAP Datacenter Movement and Operating System Migration for a Global Satellite TV Service Provider



## Client

Global satellite TV service provider

## Business Objectives

Datacenter movement and operating system migration from AIX UNIX to Linux

## Challenges

- Complex landscape with new components like CRM-ISA (e-Selling), extended configuration management tool (XCM) for configuring web applications (b2b, shopadmin, etc.).
- Configuring the production system for high interface load
- Integration of taxware product vertex was major challenge after migration
- Migration challenges in terms of size, hardware resources (or lack thereof) and migration method caused by time constraints

## MphasiS Solution

- A set of SAP specific migration tools were used to achieve reduced downtime
- Unsorted export for the transparent tables
- Package Splitter, Table Splitter for large cluster tables

### Package and Table Splitting

The database size of nearly 1TB and very large tables had been the determining factors for the downtime. We parallelized the database export to improve the speed of the whole migration process, by using Package and Table Splitters.





- Multiple instances of Distribution Migration Monitor (DMM) to allow distributed parallel import and export processes

### Distribution Migration Monitor (DistMon)

In Migration, the system copy causes very high CPU load during the export. Most of the CPU power is spent on data conversion, especially when processing cluster tables.

To avoid CPU bottlenecks, we distributed the exports and imports across two different servers and parallelized these processes more effectively. This allowed us to take advantage of additional processor resources for the database export/import.

In order to meet downtime objectives, the workload of export packages were distributed between the CI/DB server and the other two servers (Hosts A and B). Host A handled the smaller tables, Host B was used to handle the export of the big tables group (which contained >10 million, >2 million, and >200,000 records); these were divided into smaller packages using Package Splitter.

## Business Benefits

- Online Migration using backup/restore method, enabled DB in backup mode and then role forward logs which in turn reduced actual downtime on source system.
- Number of iteration test without taking actual downtime on source system which helped to have resolution in hand before actual migration.

Technology Stack	Project Specific Details
SAP Version: SAP 4.7, CRM 5.0.	Team Size: 8
No of Users: 2000	Duration: 19 weeks
Platform: UNIX/Oracle	Region: US

## ABOUT MPHASIS

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