

Successful Migration and Minimalization of Expensive System Downtime for the World's Largest Shipping and Logistics Company



Client

World Largest Shipping and Logistics company.

Business Objectives

- OS Migration from Windows to Linux
- Splitting Multiple Component in One Database to Single System
- MAA architecture with eliminating database as SPOF
- Migration of database and Oracle RAC System from Windows to Linux
- Implementation of oracle clustware tool SAPCONTROL (SAPCTL) to easily manage high availability resource

Challenges

- Migration involved Oracle RAC (Real Application Clusters) system with MCOD (Multiple component on single database)
- Splitting MCOD (Multiple Component on single Database) system into single instance
- HR specific system
- Due to MCOD customer was had the following restriction/limitation
 - No independent backup / recovery of a single component in an MCOD installation
 - No transport / copy of a single component on database file level
 - Downtime of database (scheduled / unscheduled) lead to a downtime of all components in this installation
 - Administration jobs may require more time due to enlarged data base size
 - No combination of Unicode and Non-Unicode Systems in one common database

MphasiS Solution

- We used standard SAP Methodology for migration known as Heterogeneous System Copy and Online Migration using backup/restore method. We were able to perform the migration during the scheduled maintenance windows and hence minimize expensive system downtime .
- We divided the migration process into three parts. Preparation, Test Migration and Final Migration.





- Preparation: During our pre-planning session we determine and alleviated compatibility issues between the operating system, database.
- Test migration: We created 'proof of concept' for migration on test system. Our migration process involved performing a test migration and applying all fixes. It is during this phase of the project that the key business processes and interfaces were tested, fixes required due to OS/database platform changes, they are implemented and tested during this phase of the project.
- Final Migration: In the Go-Live phase we perform the migration of the production database and all dynamic data of SAP Production, interfaces and add-on systems. All changes and fixes are applied based on previous migration cycles. SAP support helps in Post go-live migration and implementation recommendation.
- The contribution of a SAP certified migration consultant with previous migration experience was an important factor for a seamless execution of an OS/DB migration project.
- Mphasis has the experience, leadership, and resources to provide timely, costeffective, and successful OS/DB migration.
- We supplemented the SAP migration process with our unique technical skills to enhance success.
- Splitted activity into two parts OS migration and RAC conversion.
- Sapctl to manage enqueue replication.

Business Benefits

- Successfully handover of the systems before schedule with minimal downtime
- Improved performance and splitted MCOD (Multiple Component in Single Database) to single instance system
- Removed database as single point of failure
- Removed inter dependencies of database server with each others for maintenance activity due to MCOD

Technology Stack

SAP VERSION : ECC 6.0, ERECRUIT Netweaver stack, EP 7.0
 No Of Users : 500
 Platform : Windows /Unix/Oracle

Project Specific

Team Size : 6
 Duration : 28 Week
 Region : Europe

ABOUT MPHASIS

Mphasis is a \$1 billion global service provider, delivering technology based solutions to clients across the world. With over 41,000 people, Mphasis services clients in Banking & Capital Markets, Insurance, Manufacturing, Communications, Media & Entertainment, Healthcare & Life Sciences, Transportation & Logistics, Retail & Consumer Packaged Goods, Energy & Utilities and Governments around the world. Our competency lies in our ability to offer integrated service offerings in Applications, Infrastructure Services and Business Process Outsourcing. To know more about Mphasis, log on to www.mphasis.com

Mphasis is a preferred SAP partner, and is also engaged with SAP on many leading edge initiatives in the implementation and process methodologies. Mphasis SAP Practice, provides SAP Implementation, Upgrade and Comprehensive Maintenance services to leading customers globally. Mphasis has the right tools, methodologies and accelerators to reduce implementation times, and enhance value to customers. Mphasis is ably equipped with a SAP Center of Expertise [CoE] and Labs that works on the latest changes in Netweaver, Basis, etc.

For more information, contact: sales@mphasis.com

USA: 460 Park Avenue South, Suite #1101, New York, NY 10016, USA. Tel.: +1 212 686 6655, Fax: +1 212 686 2422

UK: 88 Wood Street, London EC2V 7RS, UK. Tel.: +44 20 85281000, Fax: +44 20 85281001

AUSTRALIA: 9 Norberry Terrace, 177-199 Pacific Hwy, North Sydney, 2060, Australia. Tel.: +61 2 99542222, Fax: +61 2 99558112

INDIA: Bagmane Technology Park, Byrasandra Village, C.V. Raman Nagar, Bangalore 560 093, India
 Tel.: +91 80 4004 0404, Fax: +91 80 4004 9999