ORACLE DATA SHEET

Oracle Migration Service for Oracle Database

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ADVANCED CUSTOMER SUPPORT

Oracle Database helps lower IT costs and delivers a higher quality of service by enabling consolidation onto database clouds and engineered systems, such as Oracle Exadata. For a fast and low risk database migration to an Oracle database environment, Oracle Advanced Customer Support provides the Oracle Migration Service.

MIGRATIONS FOR ORACLE DATABASE ENVIRONMENTS

KEY BENEFITS

- Faster Migrations
- Lower Risk
- Maximize Performance and Availability

KEY SERVICE FEATURES

- Pre-migration analysis
- High automation and tuning
- Migration validation
- Comprehensive reporting at all steps of the migration

MIGRATION FEATURES:

- Database reorganizations
- Database upgrades
- RAC implementation
- New hardware implementation
- New storage system

IMPLEMENTATION OF NEW DATABASE FEATURES

- Index compression
- Table compression
- Partitioning
- Automatic Storage Management – ASM
- TDE/Security

Oracle Migration Service

Oracle Migration Service delivers unique automated technology, interactive tools and migration expertise to help plan, validate and migrate all database content - quickly and effectively. With over ten years of migration experience with Oracle and non-Oracle migrations, experts from Oracle Advanced Customer Support deliver a complete solution:

- Pre-migration analysis of key aspects essential to migrate successfully
- High automation and tuning with the ability to parallelize migrations
- Migration validation
- Comprehensive reporting during each step of the process
- Production execution

Best of all, the migration happens in a matter of days, not the weeks - or even months - that you may expect from a typical migration.

Database Migrations Supported with Oracle Migration Service

With this service, we help you with your hardware migrations and partial or complete database reorganizations with a lower risk to your production environment. This service supports all operating systems with Oracle 9i installed, and it is fully hardware-independent.

Database	
Source Database	Oracle Database 9i, Oracle Database 10g, Oracle Database 11g, Oracle Database 12c, Non-Oracle Hardware, Legacy Oracle Hardware
Destination Database	Oracle Database 11g, Oracle Database 12c, Oracle Platforms, including Oracle Exadata and Oracle SuperCluster, Oracle's SPARC T5-8 and Oracle's SPARC M6-32

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Migration Tools and Delivery

Delivery Options and the Oracle Advanced Support Cloud

With the Oracle Migration Service, you have the option of requesting all local onsite delivery resources or a blend of local and remote resources. The Oracle Migration Service uses the Oracle Advanced Support Platform (an on-premises software toolset) to provide service automation and efficiencies that help drive faster execution, tuning and testing of the solution.

Once the Oracle Advanced Support Platform is in place, most customers connect to Oracle Advanced Support Cloud to enable remote support delivery.

Oracle Advanced Support Portal

You control what migrations need to occur through an interactive portal tailored for your environment. This portal communicates with Oracle which database and servers will be migrated. It also shows the outputs of your test and production migrations, including assessments, executions and validations. The portal helps keeps you updated each step of the way on your migration process.

Migration Tool

The migration tool is the automation technology used to migrate Oracle Databases. The tool can be configured on a project level or across a full migration. It performs the automated analysis of the source database, including identifying what areas require special attention, such as large tables or datatype. It also identifies opportunities for optimization, such as compression and identifies tables that should be migrated using specific methods.

Key Features of Migration Tool

- A set of job scripts are created for each object and data that needs to be migrated.
- A migration plan is created to define what objects gets migrated and in what sequence as well as the level of parallelism that can be applied.

The migration scheduler performs the migration using the migration plan and migration job scripts. It executes and logs the migration progress. As the scheduler is executing, the delivery engineer can scale up or down the level of parallelism depending on the available resources.

Migration Process

Below is the migration process after the Oracle Advanced Support Gateway has been setup or if onsite delivery occurs:

ORACLE MIGRATION SERVICE PROCESS
Pre-Migration Analysis
Analyze source and destination systems
Identify migration approaches, timings, invalid objects and new features
Select migration method and configure migration tooling
Validation and Migration Testing - Multiple Test Runs
Pre-Migration Assessment
Define optimal migration scenario based on analysis
Identify any issues and make recommendations on how to quickly resolve before a migration is performed

Comprehensive report generated and migration experts review findings with you
Testing confirms migration objectives met for a successful migration execution
Production Cutover
Pre-migration assessment and preparation to ensure production is close to test migrations
Configuration of migration tool
Migration execution and monitoring
Support and diagnose any issues
Monitoring and issue resolution
Migration go-live and support

Detailed Features for Oracle Migration Service

Many features are available to support a wide range of different database systems and configurations as well as different migration scenarios (migrations over WLAN).

KEY SERVICE FEATURE DETAILS
Automated scheduling software to make the migration easier
Changing database user names including schema name
Customize tablespace layout to easier database administration
Moving selected tables and indexes to individual tablespaces
Excluding selected database users from migration
Copying table structure only for selected tables, e.g. create size reduces database copies
All options can be combined in any order, and tablespace sizes on the target system are calculated automatically
Identify any issues and make recommendations on how to quickly resolve before a migration is performed
Parallel copy method for large tables
Import of external scripts to create customized migration scripts (partitioning)
Enhanced partitioning support (sub partitioning, Global, Global partitioned and local indexes)
Support for DataPump export/import for tables having LOB or Long Raw datatypes
Supports table sorting during migration. Index compression on target system
Table compression for 10g, 11g and 12c including Oracle Exadata specific compression methods
Enhanced migration checks based on row counts on each table in source and target system

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For more information about Oracle Migration Service, visit oracle.com/acs, e-mail us at acsdirect_us@oracle.com, or call +1.800.ORACLE1 to speak to an Oracle representative.

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