

Database migration assessment report



Source database: sctuser@dnvqa2dbpepp1.corp.nai.org:1521/cprqadb

Oracle Database 11g Enterprise Edition 11.2.0.3.0 (64bit Production), Enterprise edition

Executive summary

We completed the analysis of your Oracle source database and estimate that 99.9% of the database storage objects and 97% of database code objects can be converted automatically or with minimal changes if you select Amazon RDS for Oracle as your migration target. Database storage objects include schemas, tables, table constraints, indexes, types, collection types, sequences, synonyms, view-constraints, clusters and database links. Database code objects include triggers, views, materialized views, materialized view logs, procedures, functions, packages, package constants, package cursors, package exceptions, package variables, package functions, package procedures, package types, package collection types, scheduler-jobs, scheduler-programs and scheduler-schedules. Based on the source code syntax analysis, we estimate 100% (based on # lines of code) of your code can be converted to Amazon RDS for Oracle automatically. To complete the migration, we recommend 3,956 conversion action(s) ranging from simple tasks to medium-complexity actions to complex conversion actions.

License evaluation and cloud support

Your Enterprise server has the following features turned on: Tuning Pack.

If you want to move this database to Standard Edition, you need to remove dependencies on these features: Advanced Compression, Bitmapped index, bitmapped join index, and bitmap plan conversions, Materialized View Query Rewrite, Partitioning.

Your source server has some features turned on that can't be moved to RDS: Automatic Storage Management.

Database objects with conversion actions for Amazon RDS for Oracle

Of the total 14,978 database storage object(s) and 20,857 database code object(s) in the source database, we identified 14,977 (99.9%) database storage object(s) and 20,275 (97%) database code object(s) that can be converted to Amazon RDS for Oracle automatically or with minimal changes.

We found 1,424 encrypted object(s).

1 (0.1%) database storage object(s) require 1 complex user action(s) to complete the conversion.

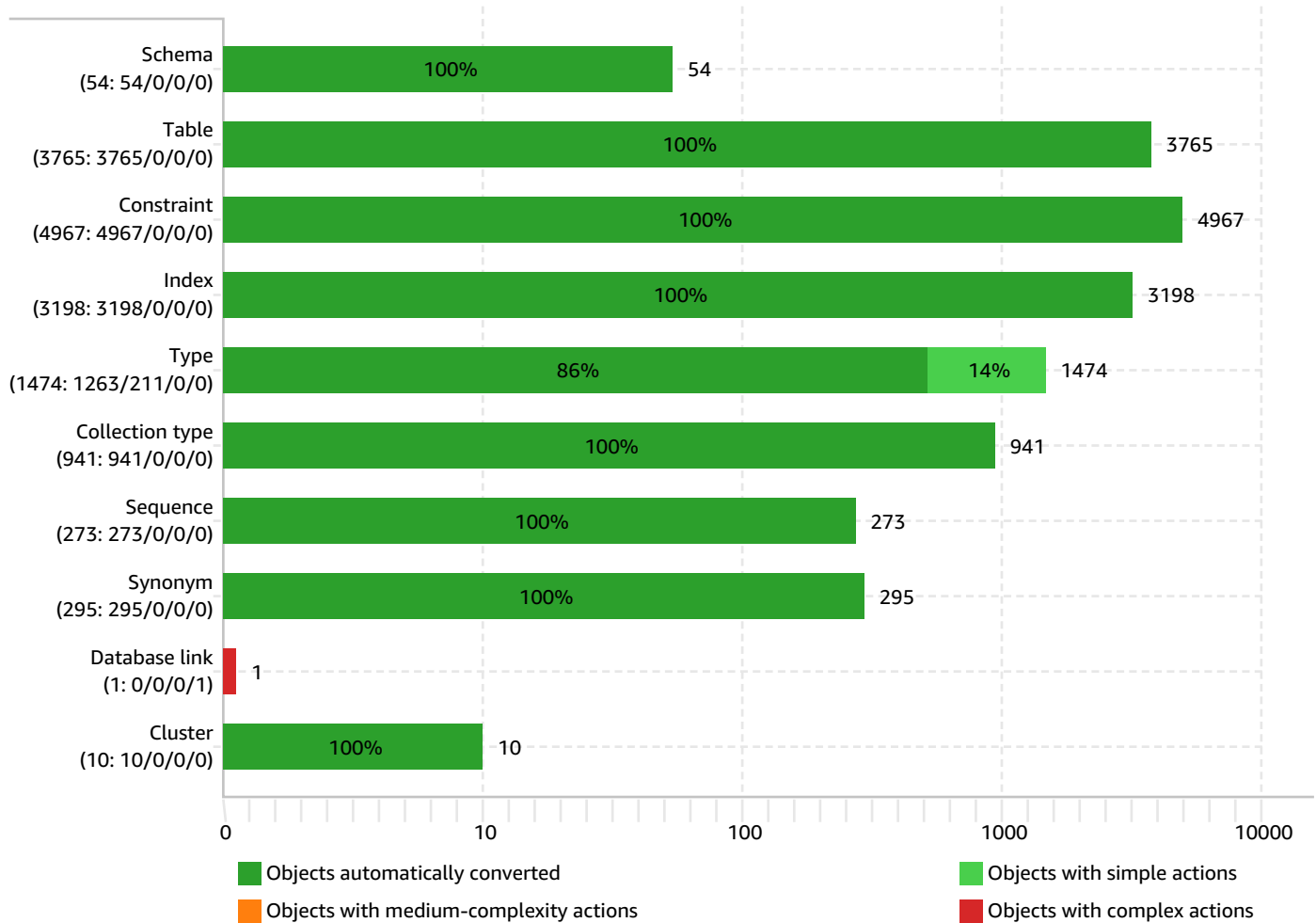
582 (3%) database code object(s) require 265 complex user action(s) to complete the conversion.

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Figure: Conversion statistics for database storage objects



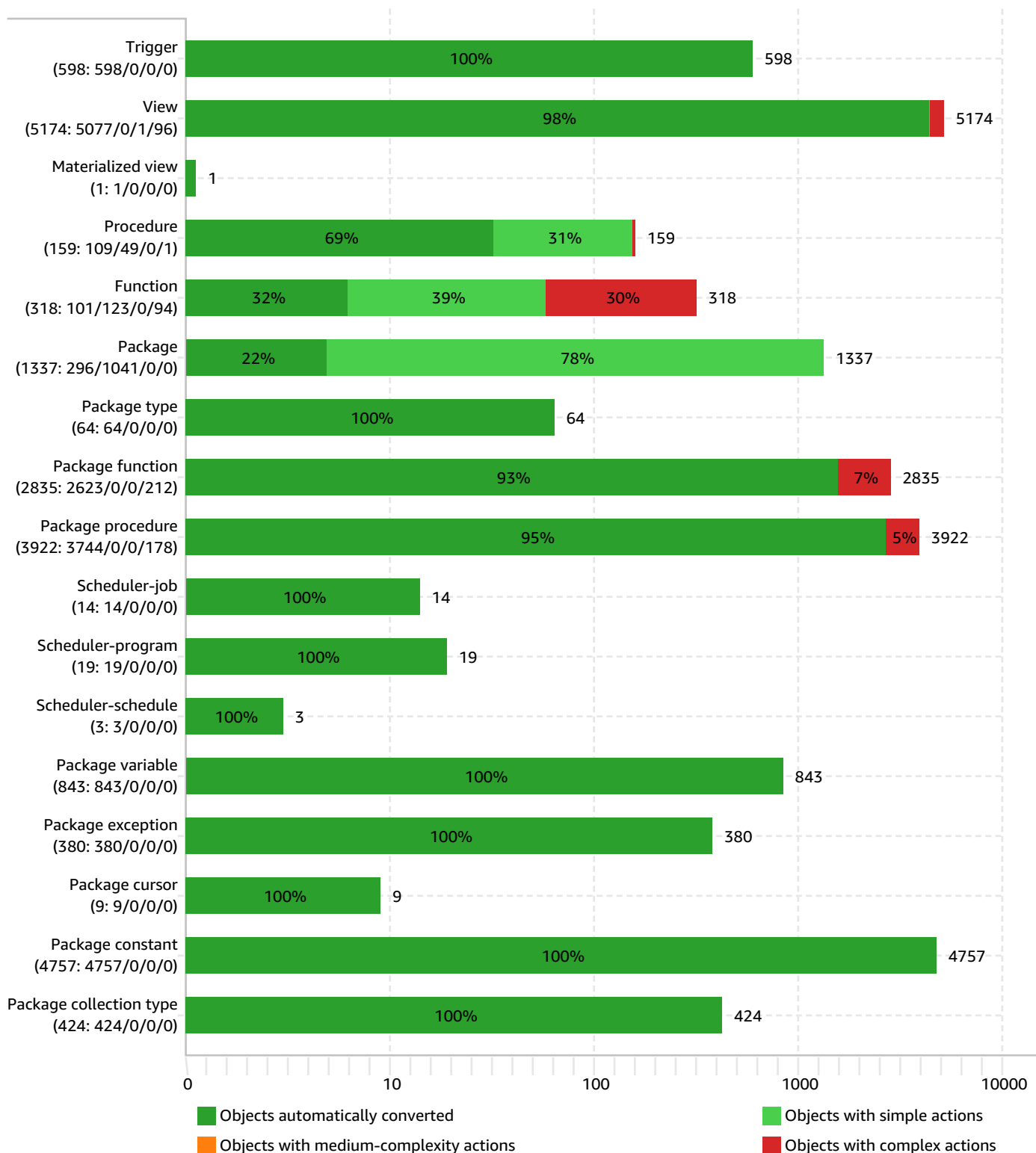
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Figure: Conversion statistics for database code objects



Detailed recommendations for Amazon RDS for Oracle migrations

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If you migrate your Oracle database to Amazon RDS for Oracle, we recommend the following actions.

Storage object actions

Database link Changes

Not all database links can be converted automatically. You'll need to address these issues manually.

– Issue 1511: Unable to set custom owner for private database link

Recommended action: Owner of private DBLink is always current user. Please connect as necessary user and create link manually.

Issue code: 1511 | Number of occurrences: 1 | Estimated complexity: Complex

Schemas.CONTRIB_OCS.Database Links.FND

Type Changes

Not all types can be converted automatically. You'll need to address these issues manually.

! Issue 1500: Wrapped object is migrated AS IS

Recommended action: Please, check that the target system meets dependencies and required privileges.

Issue code: 1500 | Number of occurrences: 211 | Estimated complexity: Simple

Schemas.CTXSYS.User Defined Types.CATINDEXMETHODS
Schemas.CTXSYS.User Defined Types.RULEINDEXMETHODS
Schemas.CTXSYS.User Defined Types.TEXTINDEXMETHODS
Schemas.CTXSYS.User Defined Types.TEXTOPTSTATS
Schemas.CTXSYS.User Defined Types.XPATHINDEXMETHODS
+206 more

Code object actions

Package procedure Changes

Not all package procedures can be converted automatically. You'll need to address these issues manually.

! Issue 1700: Unsupported Built-in Object

Recommended action: Try to replace the reference to the object manually.

Issue code: 1700 | Number of occurrences: 667 | Estimated complexity: Simple

Schemas.MDSYS.Packages.SDO_RELATE_MASK.Public procedures.DELETE_MASK: 83:89
Schemas.MDSYS.Packages.SDO_RELATE_MASK.Public procedures.DELETE_MASK: 123:130
Schemas.MDSYS.Packages.SDO_RELATE_MASK.Public procedures.DELETE_MASK: 132:135
Schemas.MDSYS.Packages.SDO_RELATE_MASK.Public procedures.DELETE_MASK: 144:148
Schemas.MDSYS.Packages.SDO_RELATE_MASK.Public procedures.DELETE_MASK: 273:280
+662 more

– Issue 1701: AWS RDS doesn't support Java stored objects

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Recommended action: Try to convert an underlying Java resource manually.

Issue code: 1701 | Number of occurrences: 130 | Estimated complexity: Complex

Schemas.MDSYS.Packages.SDO_ROUTER_PARTITION.Public procedures.BUILD_TURN_RESTRICTIONS
Schemas.MDSYS.Packages.SDO_ROUTER_PARTITION.Public procedures.ELOCATION_DUMP_PARTITION
Schemas.MDSYS.Packages.SDO_ROUTER_PARTITION.Public procedures.ELOCATION_PARTITION_ROUTER
Schemas.MDSYS.Packages.SDO_ROUTER_PARTITION.Public procedures.ELOCATION_TRUCKING_USER_DATA
Schemas.MDSYS.Packages.SDO_ROUTER_PARTITION.Public procedures.ELOCATION_VALIDATE_PARTITION
+125 more

Package function Changes

Not all package functions can be converted automatically. You'll need to address these issues manually.

! Issue 1700: Unsupported Built-in Object

Recommended action: Try to replace the reference to the object manually.

Issue code: 1700 | Number of occurrences: 395 | Estimated complexity: Simple

Schemas.MDSYS.Packages.SDO_ROUTER_PARTITION.Private functions.CONSTRAINT_EXISTS: 228:231
Schemas.MDSYS.Packages.SDO_ROUTER_PARTITION.Private functions.CONSTRAINT_EXISTS: 253:267
Schemas.MDSYS.Packages.SDO_ROUTER_PARTITION.Private functions.CONSTRAINT_EXISTS: 277:278
Schemas.MDSYS.Packages.SDO_ROUTER_PARTITION.Private functions.GET_VERSION_INFO: 190:228
Schemas.MDSYS.Packages.SDO_ROUTER_PARTITION.Private functions.GET_VERSION_INFO: 326:329
+390 more

– Issue 1701: AWS RDS doesn't support Java stored objects

Recommended action: Try to convert an underlying Java resource manually.

Issue code: 1701 | Number of occurrences: 131 | Estimated complexity: Complex

Schemas.MDSYS.Packages.SDO_TOPO_MAP.Public functions.ADD_EDGE
Schemas.MDSYS.Packages.SDO_TOPO_MAP.Public functions.ADD_ISOLATED_NODE\$0
Schemas.MDSYS.Packages.SDO_TOPO_MAP.Public functions.ADD_ISOLATED_NODE\$1
Schemas.MDSYS.Packages.SDO_TOPO_MAP.Public functions.ADD_ISOLATED_NODE\$2
Schemas.MDSYS.Packages.SDO_TOPO_MAP.Public functions.ADD_ISOLATED_NODE\$3
+126 more

Package Changes

Not all packages can be converted automatically. You'll need to address these issues manually.

! Issue 1500: Wrapped object is migrated AS IS

Recommended action: Please, check that the target system meets dependencies and required privileges.

Issue code: 1500 | Number of occurrences: 1,041 | Estimated complexity: Simple

Schemas.APEX_030200.Packages.APEXWS
Schemas.APEX_030200.Packages.APEX_MIG_PROJECTS_UPDATE
Schemas.APEX_030200.Packages.APEX_UI_DEFAULT_UPDATE
Schemas.APEX_030200.Packages.HTMLDB_CUSTOM_AUTH
Schemas.APEX_030200.Packages.HTMLDB_ITEM
+1036 more

Function Changes

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Not all functions can be converted automatically. You'll need to address these issues manually.

! Issue 1500: Wrapped object is migrated AS IS

Recommended action: Please, check that the target system meets dependencies and required privileges.

Issue code: 1500 | Number of occurrences: 123 | Estimated complexity: Simple

Schemas.APEX_030200.Functions.V
Schemas.CTXSYS.Functions.DRI_SUBLXV_LANG
Schemas.CTXSYS.Functions.DRI_VERSION
Schemas.EXFSYS.Functions.COLLECTSTATS
Schemas.EXFSYS.Functions.EVALUATE_CA
+118 more

! Issue 1700: Unsupported Built-in Object

Recommended action: Try to replace the reference to the object manually.

Issue code: 1700 | Number of occurrences: 376 | Estimated complexity: Simple

Schemas.MDSYS.Functions.ELOCATION_EDGE_LINK_LEVEL: 116:125
Schemas.MDSYS.Functions.HHAND: 83:85
Schemas.MDSYS.Functions.HHAND: 88:90
Schemas.MDSYS.Functions.HHBYTELEN: 124:127
Schemas.MDSYS.Functions.HHBYTELEN: 129:131
+371 more

– Issue 1701: AWS RDS doesn't support Java stored objects

Recommended action: Try to convert an underlying Java resource manually.

Issue code: 1701 | Number of occurrences: 3 | Estimated complexity: Complex

Schemas.SYS.Functions.DBJ_LONG_NAME
Schemas.SYS.Functions.NameFromLastDDL
Schemas.SYSMAN.Functions.EMDSYSTEM

Procedure Changes

Not all procedures can be converted automatically. You'll need to address these issues manually.

! Issue 1500: Wrapped object is migrated AS IS

Recommended action: Please, check that the target system meets dependencies and required privileges.

Issue code: 1500 | Number of occurrences: 49 | Estimated complexity: Simple

Schemas.APEX_030200.Procedures.APEX
Schemas.APEX_030200.Procedures.DEVELOPMENT_SERVICE_HOME
Schemas.APEX_030200.Procedures.DEVELOPMENT_SERVICE_HOME_LOGIN
Schemas.APEX_030200.Procedures.DEVELOPMENT_SERVICE_SIGNUP
Schemas.APEX_030200.Procedures.F
+44 more

– Issue 1701: AWS RDS doesn't support Java stored objects

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Issue code: 1701 | Number of occurrences: 1 | Estimated complexity: Complex
Schemas.MDSYS.Procedures.ELOCATIONSETJVMHEAPSIZE

View Changes

Not all views can be converted automatically. You'll need to address these issues manually.

Issue 1507: Verify the valid route between the DB instances

Recommended action: Verify the valid route between the DB instances by using VPC routing tables and network access control list.

Issue code: 1507 | Number of occurrences: 1 | Estimated complexity: Simple
Schemas.CONTRIB_OCS.Views.CSP_LOCALIZATION_V: 36:57

Issue 1700: Unsupported Built-in Object

Recommended action: Try to replace the reference to the object manually.

Issue code: 1700 | Number of occurrences: 827 | Estimated complexity: Simple

Schemas.MDSYS.Views.ALL_ANNOTATION_TEXT_METADATA: 7:20
Schemas.MDSYS.Views.ALL_ANNOTATION_TEXT_METADATA: 29:40
Schemas.MDSYS.Views.ALL_ANNOTATION_TEXT_METADATA: 69:81
Schemas.MDSYS.Views.ALL_ANNOTATION_TEXT_METADATA: 111:124
Schemas.MDSYS.Views.ALL_ANNOTATION_TEXT_METADATA: 142:164
+822 more