

New Features Bulletin Replication Server® Options 15.2 for Linux, Microsoft Windows, and UNIX

Document ID: DC01004-01-1520-02

Last revised: August 2009

Topic	Page
Software features	1
Datatypes	3
Support for replicating datatypes into IBM DB2 Universal Database datatypes	3
Support for replicating datatypes into Microsoft SQL Server datatypes	4
Support for replicating certain datatypes into Oracle datatypes	5

This document describes features for Replication Server Options 15.2 when Replication Server, Replication Agent™ and Enterprise Connect Data Access™ (ECDA) are used together for heterogeneous replication. For information about new features in Replication Server, Replication Agent and ECDA, see the respective new features guides for these products.

Software features

The following is a list of new features that are supported for Replication Server Options 15.2.

- Oracle 11g support (except for SecureFiles, virtual columns, encrypted tablespace, and encrypted columns)
- Real Application Clusters (RAC) Oracle 11g
- Automatic Storage Management (ASM) Oracle 11g

For detailed information about Oracle feature support, see the *Replication Agent 15.2 New Features Bulletin*.

The following is a limited list of features that are not supported for Sybase replication:

- Microsoft SQL Server Cluster
- Microsoft SQL Server 2008
- Oracle index-organized tables
- Oracle materialized views
- Oracle packaged stored procedures and functions (stand-alone procedures and functions are supported)
- Oracle procedures and functions having a BOOLEAN or SIMPLE_INTEGER parameter
- Oracle Flashback, Recycle Bin, and Flashback Recovery Area
- Oracle SecureFile large objects (LOBs)
- Oracle virtual columns
- Oracle RMAN utility
- Oracle encrypted columns
- Oracle encrypted partitions
- Oracle schema objects in encrypted tablespaces
- IBM DB2 Universal Database data-definition language (DDL) commands
- IBM DB2 Universal Database stored procedures
- Replication Server parallel DSI (for non-ASE databases)
- Replication Server warm standby (for non-ASE databases)
- Replication Server rs_init utility (for non-ASE databases)
- Replication Server rs_subcomp utility (for non-ASE databases)
- Replication Server automatic materialization (for non-ASE databases)
- Replication Server when replicating in an environment where other vendors are replicating (for non-ASE databases)

Note Only features and functionality covered in the Replication Server Options documentation are supported for that solution. If a feature or type of functionality is not documented, it is not supported.

Datatypes

The following identifies the datatypes that are supported or are not supported, depending on your ESD level for ECDA.

Support for replicating datatypes into IBM DB2 Universal Database datatypes

ECDA 15.0 ESD #3 supports replicating these Sybase datatypes into IBM DB2:

- bigint
- unsigned bigint
- unsigned integer
- unsigned smallint
- unsigned tinyint
- unichar
- univarchar

ECDA 15.0 ESD #3 does not support replicating these Sybase datatypes into IBM DB2 UDB:

- text
- image
- unitext

ECDA 15.0 ESD #3 supports replicating these IBM DB2 UDB datatypes:

- bigint
- graphic
- vargraphic

ECDA 15.0 ESD #3 does not support replicating these IBM DB2 UDB datatypes:

- blob
- clob
- dbclob

None of the replication components (Replication Agent, Replication Server, or ECDA) supports replicating these DB2 UDB datatypes:

- DATALINK
- DECFLOAT
- XML
- large identifier
- user-defined types

Support for replicating datatypes into Microsoft SQL Server datatypes

ECDA 15.0 ESD #3 supports replicating these Sybase datatypes:

- bigint
- unsigned bigint
- unsigned integer
- unsigned smallint
- unsigned tinyint
- unichar
- univarchar
- unitext

ECDA 15.0 ESD #3 supports replicating these Microsoft SQL Server datatypes:

- bigint
- nchar
- nvarchar
- ntext
- varbinary(max)
- varchar(max)
- nvarchar(max)

- sql_variant

Note The varbinary(max), varchar(max), nvarchar(max), and sql_variant datatypes are supported only in a replication environment (not for gateway or any other ECDA use).

None of the replication components (Replication Agent, Replication Server, or ECDA) supports replicating the following Microsoft SQL Server datatypes:

- cursor
- table
- xml

Support for replicating certain datatypes into Oracle datatypes

ECDA 15.0 ESD #3 supports replicating these Sybase datatypes:

- bigint
- unsigned bigint
- unsigned integer
- unsigned smallint
- unsigned tinyint
- unichar
- univarchar
- unitext

ECDA 15.0 ESD #3 supports replicating the Oracle nclob datatype.

None of the replication components (Replication Agent, Replication Server, or ECDA) supports replicating these Oracle datatypes:

- UROWID
- REF
- MLSLABEL
- VARRAY
- Nested Tables

- Associative arrays
- Oracle-supplied datatypes
 - “Any” Types (SYS.ANYTYPE, SYS.ANYDATA, SYS.ANYDATASET)
 - XML Types (XMLType, URIType, DBURIType, XDBURIType, HTTPURIType)
 - Spatial Types (MDSYS.SDO_GEOMETRY, SDO_TOPO_GEOMETRY, SDO_GEORASTER)
 - Media Types (ORDSYS.ORDAudio, ORDSYS.ORDImage, ORDSYS.ORDImageSignature, ORDSYS.ORDVideo, ORDSYS.ORDDoc, SI_StillImage, SI_Color, SI_AverageColor, SI_ColorHistogram, SI_PositionalColor, SI_Texture, SI_FeatureList)
 - Expression Filter Type
- User-defined datatypes (UDDs) that contain a LOB column.
- UDDs that are not final