



**Overview Guide**

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**Replication Server<sup>®</sup> Option for  
Oracle 15.7.1 ESD #2**

Linux, Microsoft Windows, and UNIX

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# About Replication Server Option for Oracle

Replication Server® Option for Oracle is used with Replication Server for replication across distributed Oracle databases to enable different operational and decision-support tasks.

Replication Server Option for Oracle contains the replication components for replication with Oracle databases.

- The Replication Server Option for Oracle components are:
  - Replication Agent™ for Oracle
  - ExpressConnect for Oracle

Replication Server Option for Oracle is available separately from Replication Server. However, to implement the solutions described in this document, you must have both the Replication Server Option for Oracle and Replication Server. With Replication Server and Replication Server Option for Oracle, you can:

- Replicate data across heterogeneous environments using Oracle, allowing data to be shared among different operational and decision-support systems without affecting business performance.
- Integrate disparate business systems, including legacy data, into a coordinated, easily accessed, and powerful corporate business enterprise.

## Replication Server Option for Oracle Components

Replication Server Option for Oracle components include Replication Agent for Oracle and ExpressConnect for Oracle (ECO).

For special instructions on installing option components, see the *Replication Server Option for Oracle Release Bulletin*.

## Replication Agent for Oracle

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Replication Agent for Oracle extends the capabilities of Replication Server by allowing Oracle database servers to be data sources in a Sybase® replication system.

Replication Agent for Oracle captures transactions in the primary database and transfers them to Replication Server for distribution to replicate databases.

### Standalone Application

## Sample Solutions

Replication Agent for Oracle runs as a server application. Replication Agent for Oracle can reside on the same host machine as any other component of the replication system, or it can reside on a machine that is separate from other replication system components. Replication Agent must reside on the same type of hardware and operating system as the primary database.

### **Replication Agent for Oracle Monitoring**

Replication Agent for Oracle instances can be monitored by Sybase Control Center for Replication. In addition, you can use any Open Client™ application (such as isql) that is capable of communicating with the Sybase Tabular Data Stream™ (TDS) protocol to configure, manage, and monitor a Replication Agent for Oracle instance.

For more information, see the documentation for Replication Agent for Oracle.

## **ExpressConnect for Oracle**

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ExpressConnect for Oracle (ECO) is an embedded library loaded by Replication Server for Oracle replication.

ExpressConnect for Oracle provides direct communication between Replication Server and a replicate Oracle data server. ExpressConnect for Oracle eliminates the need to install and set up a separate gateway server, thereby improving performance and reducing the complexities of managing a replication system.

See the *ExpressConnect for Oracle Installation and Configuration Guide*.

## **Sample Solutions**

The scenarios for using Replication Server Options and Replication Server in a heterogeneous replication environment.

## **Consolidation of Data into a Central Repository**

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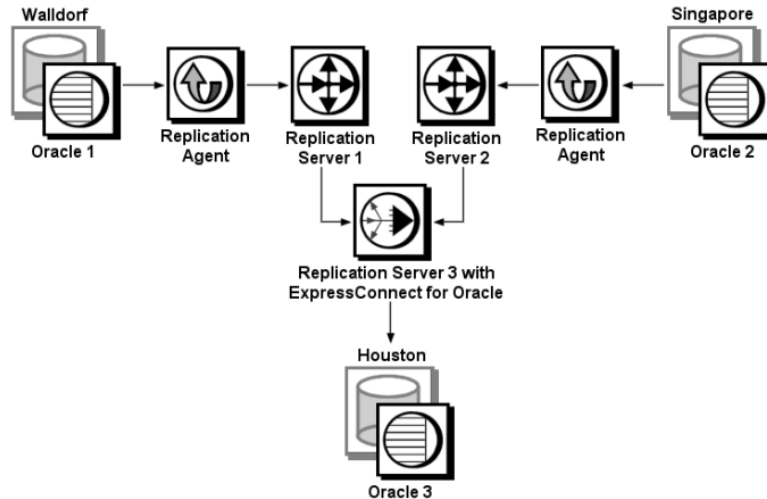
The scenario describes a sample solution for setting up unidirectional consolidation of data into a central repository using RSO for Oracle components.

A telecommunications company has satellite offices in Walldorf and Singapore that use Oracle to store local customer information. Company headquarters, in Houston, uses Oracle to store company-wide customer information. Replication Agent captures the changes to data at the satellite offices and passes them to Replication Server. Replication Server then applies data changes to the headquarters consolidated Oracle customer database.

To set up unidirectional consolidation into a central repository, the company uses these components:

- Oracle
- Replication Server
- Replication Agent for Oracle
- ExpressConnect for Oracle

**Figure 1: Unidirectional Consolidation into a Central Repository**



## Distribution of Enterprise Data Between Multiple Central Databases

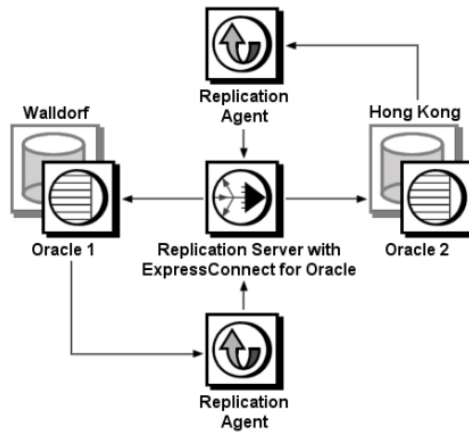
The scenario describes a sample solution for replicating Oracle data using RSO for Oracle components.

A large regional supplier maintains its enterprise data in a central database in Hong Kong before merging with a second regional supplier of comparable size in Walldorf. The Hong Kong and Walldorf enterprises maintain data on Oracle systems, and both organizations implement a bidirectional replication system.

To set up bidirectional, enterprise-wide replication, the Hong Kong enterprise uses these components:

- Oracle
- Replication Server
- Replication Agent for Oracle
- ExpressConnect for Oracle

**Figure 2: Bidirectional, Enterprise-Wide Replication**



## Multi-Path Replication

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The scenario describes a sample Multi-Path Replication™ solution using RSO components.

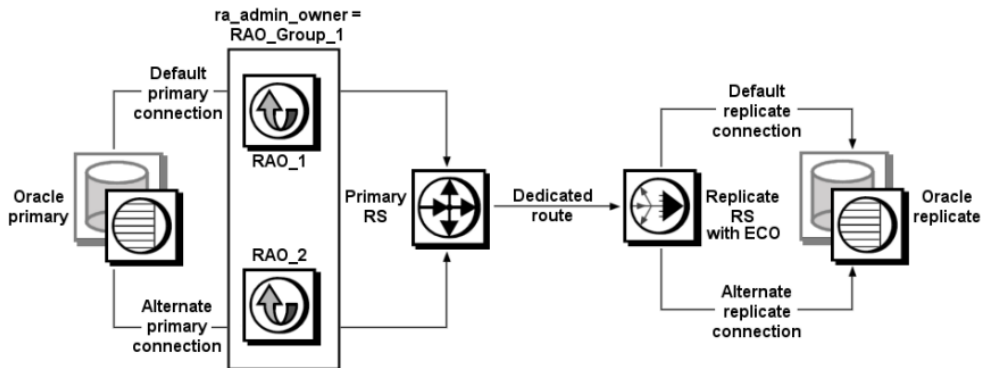
A financial institution using Oracle as its primary and replicate database demands a high level of replication performance. To increase replication throughput and reduce latency and contention, the company is using a multipath replication environment that includes default and alternate connections for the primary and replicate database.

The corresponding replication definitions and subscriptions provide a multiple-replicate-connection replication system. There are two primary replication paths from the primary database to a Replication Server. Each primary path consists of a Replication Agent path with an associated primary connection. Each primary path replicates a different set of primary tables, stored procedures, or both. A dedicated route in the replicate Replication Server replicates high-priority transactions. For a description of end-to-end multipath replication scenarios, see the *Replication Server Heterogeneous Replication Guide*.

To set up multipath replication, the company uses these components:

- Oracle
- Replication Server
- Replication Agent for Oracle
- ExpressConnect for Oracle



**Figure 3: Multipath Replication with Oracle Primary and Replicate Databases**

## Obtaining Help and Additional Information

Use the Sybase Getting Started CD, Product Documentation site, and online help to learn more about this product release.

- The Getting Started CD (or download) – contains release bulletins and installation guides in PDF format, and may contain other documents or updated information.
- Product Documentation at <http://sybooks.sybase.com/> – is an online version of Sybase documentation that you can access using a standard Web browser. You can browse documents online, or download them as PDFs. In addition to product documentation, the Web site also has links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, Community Forums/Newsgroups, and other resources.
- Online help in the product, if available.

To read or print PDF documents, you need Adobe Acrobat Reader, which is available as a free download from the *Adobe* Web site.

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**Note:** A more recent release bulletin, with critical product or document information added after the product release, may be available from the Product Documentation Web site.

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## Technical Support

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Get support for Sybase products.

If your organization has purchased a support contract for this product, then one or more of your colleagues is designated as an authorized support contact. If you have any questions, or if you need assistance during the installation process, ask a designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

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- If you purchased the product directly from Sybase or from an authorized Sybase reseller:

- a) Point your Web browser to <http://www.sybase.com/support>.
- b) Select **Support > EBFs/Maintenance**.
- c) If prompted, enter your MySybase user name and password.
- d) (Optional) Select a filter, a time frame, or both, and click **Go**.
- e) Select a product.

Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as an authorized support contact. If you have not registered, but have valid information provided by your Sybase representative or through your support contract, click **My Account** to add the “Technical Support Contact” role to your MySybase profile.

- f) Click the **Info** icon to display the EBF/Maintenance report, or click the product description to download the software.
- If you ordered your Sybase product under an SAP contract:
    - a) Point your browser to <http://service.sap.com/swdc> and log in if prompted.
    - b) Select **Search for Software Downloads** and enter the name of your product. Click **Search**.

## Sybase Product and Component Certifications

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Certification reports verify Sybase product performance on a particular platform.

To find the latest information about certifications:

- For partner product certifications, go to [http://www.sybase.com/detail\\_list?id=9784](http://www.sybase.com/detail_list?id=9784)
- For platform certifications, go to <http://certification.sybase.com/ucr/search.do>

## Creating a MySybase Profile

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MySybase is a free service that allows you to create a personalized view of Sybase Web pages.

1. Go to <http://www.sybase.com/mysybase>.
2. Click **Register Now**.

## Accessibility Features

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Accessibility ensures access to electronic information for all users, including those with disabilities.

Documentation for Sybase products is available in an HTML version that is designed for accessibility.

Vision impaired users can navigate through the online document with an adaptive technology such as a screen reader, or view it with a screen enlarger.

Sybase HTML documentation has been tested for compliance with accessibility requirements of Section 508 of the U.S Rehabilitation Act. Documents that comply with Section 508 generally also meet non-U.S. accessibility guidelines, such as the World Wide Web Consortium (W3C) guidelines for Web sites.

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For information about how Sybase supports accessibility, see the Sybase Accessibility site: <http://www.sybase.com/products/accessibility>. The site includes links to information about Section 508 and W3C standards.

You may find additional information about accessibility features in the product documentation.

