NEMMCO

National Electricity Market Management Company Limited
ABN 94 072 010 327

Replication Manager Installation Guide

An introductory Installation Guide
for version 3.0.4 of the Replication Manager

Version 1.0 released on 11 Aug 2004

Prelude

In this document, references to the 'software' are to the Replication Manager software, unless specifically otherwise. References to associated materials include this document, *Replication Manager Installation Guide*.

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Distribution

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Introduction

Overview

The Replication Manager application replaces part of Replica, being the Windows-based management functions (also known as the Replica Client). Replication Manager manages the configuration settings and monitors the status of the replication of data from NEMMCO's systems to a database instance local to the participant.

The Replication Manager application conforms to the general look-and-feel of the Windows-based Replica Client it replaces. Both components can co-exist, with Replication Manager having the advantage of being certified for use using Oracle 9i.

This document, *Replication Manager Installation Guide*, explains what to do the first time you run the Replication Manager.

Who is this software for?

This software (Replication Manager) is for each participant in the National Electricity Market interfacing with the MMS system, specifically the InfoServer, by the database replication mechanism. Replication Manager allows the use of Oracle 7, 8 or 9 as a client.

What this user manual covers

This document, *Replication Manager Installation Guide*, explains what to do the first time you run the Replication Manager.

Assumed Knowledge

This document assumes you have knowledge of

- how the NEM systems operate
- the database replication mechanism, previously referred to as the Replica application consisting of the Windows-based Replica Client and the DBMS-based Replica Server

Glossary

Term	Explanation
Code	National Electricity Code (NEC)
MMS	Market Management System; software, hardware, network and related processes to implement the National Electricity Market (NEM); a NEMMCO department responsible for maintaining the system
NEC	National Electricity Code; also often just called the Code
NEMNET	a private computer network containing participants and NEMMCO
Replica	an application consisting of the Windows-based Replica Client and the DBMS-based Replica Server
Replica Client	a windows executable to configure replication and monitor replication status, superseded (but not made obsolete) by Replication Manager
Replica Server	a set of background DBMS jobs within the local database performing replication from the remote NEMMCO database to the local database instance

Table 1: Glossary of terms

Requirements

To run this software (Replication Manager), you need:

- Windows 2000 or Windows XP environment
- Oracle Client 7, 8 or 9 (to suit your database)
- Fully set up for the Replica database replication, so Replication Manager simply replaces the windows-based Replica Client functions with extended capabilities.
- Replication Manager is compatible with Replica Server 2.4 and later versions.

Resources

For more details on the database replication mechanism, refer to the *Replication and Monitor* section of the *InfoServer Design Note*, version 2.2 (available from the *Releases* share of the Participant server, in the *\Infoserver\Documentation* directory). Where the *InfoServer Design Note* refers to 'Replica', remember the Replication Manager application supersedes the configuration and monitoring component of the Replica application.

Outline of functions

The Replication Manager application manages the configuration settings and monitors the status of the replication of data from NEMMCO's InfoServer database to a database instance local to the participant. The Replication Manager application is certified against an Oracle 9i client installation on the Windows 2000 and Windows XP platforms.

Setup

Loading the application

The latest version of the application is in a single distribution file, available from the Releases share on the Participant pre-production File Server at 146.178.211.25.

Decompress the ZIP file to a temporary directory (*C:\temp* recommended). Run the installation executable (*ReplicationManagerSetup.exe*), using the default responses except you need to accept the licence conditions. The installation executable is an InstallShield application.

Setting up the environment

This installation guide assumes you already have a working database replication, using Replica.

Local Database

Tables

The local database uses the existing tables for Replica.

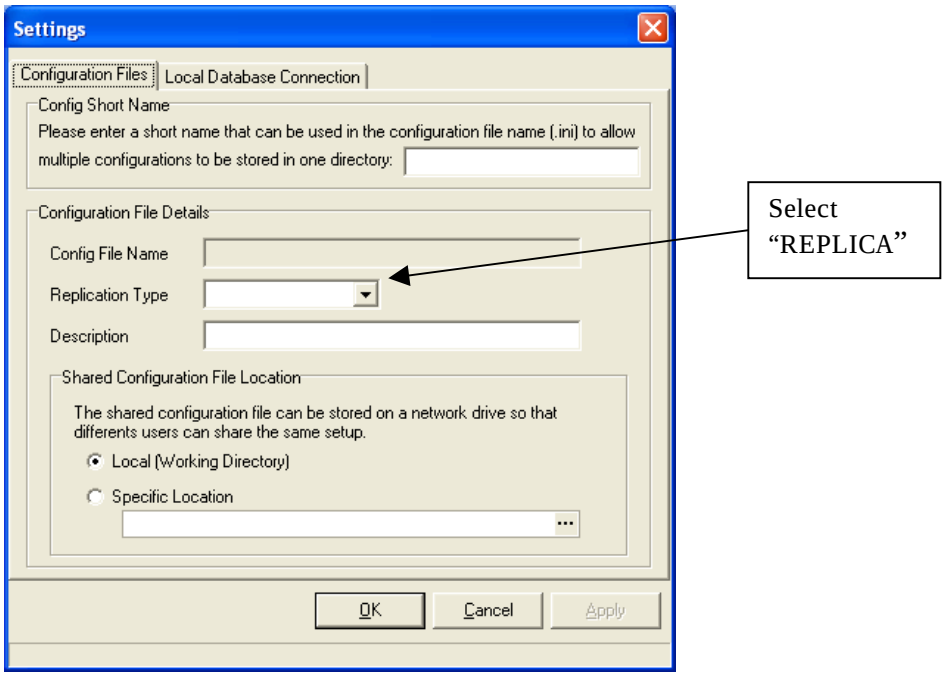
Getting started

Checklist

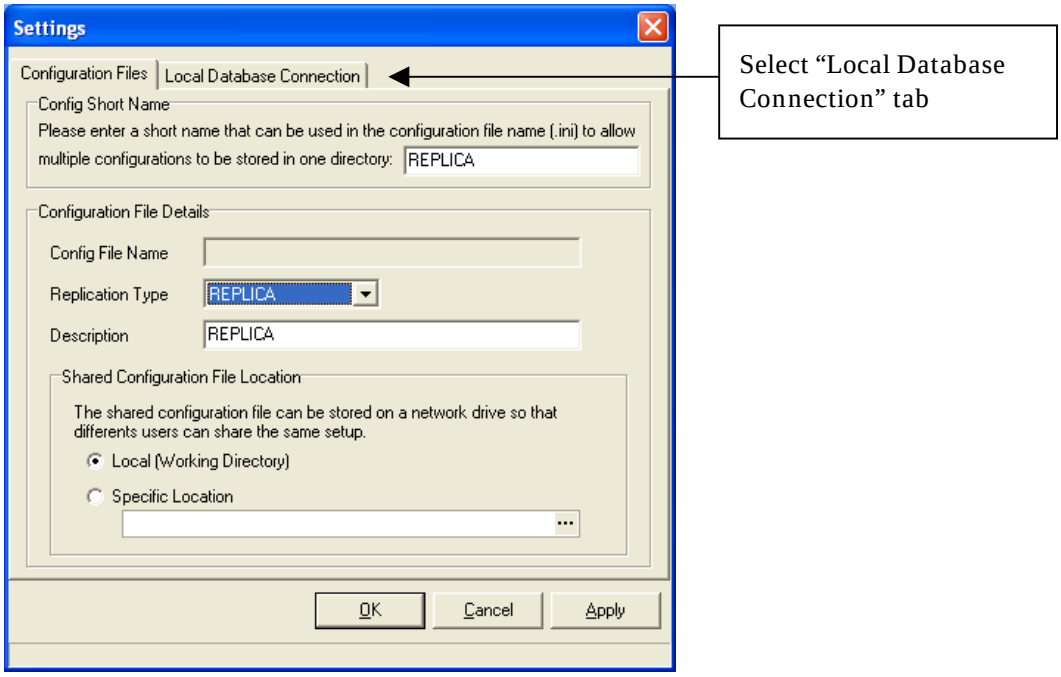
1. UnZIP *ReplicationManagerSetup_v3-0-4.zip*
2. Run *ReplicationManagerSetup.exe* (an InstallShield application)
3. Double-click the Replication Manager icon (on the desktop) for the first time to set up the database connection (see below)

Running Replication Manager for the first time

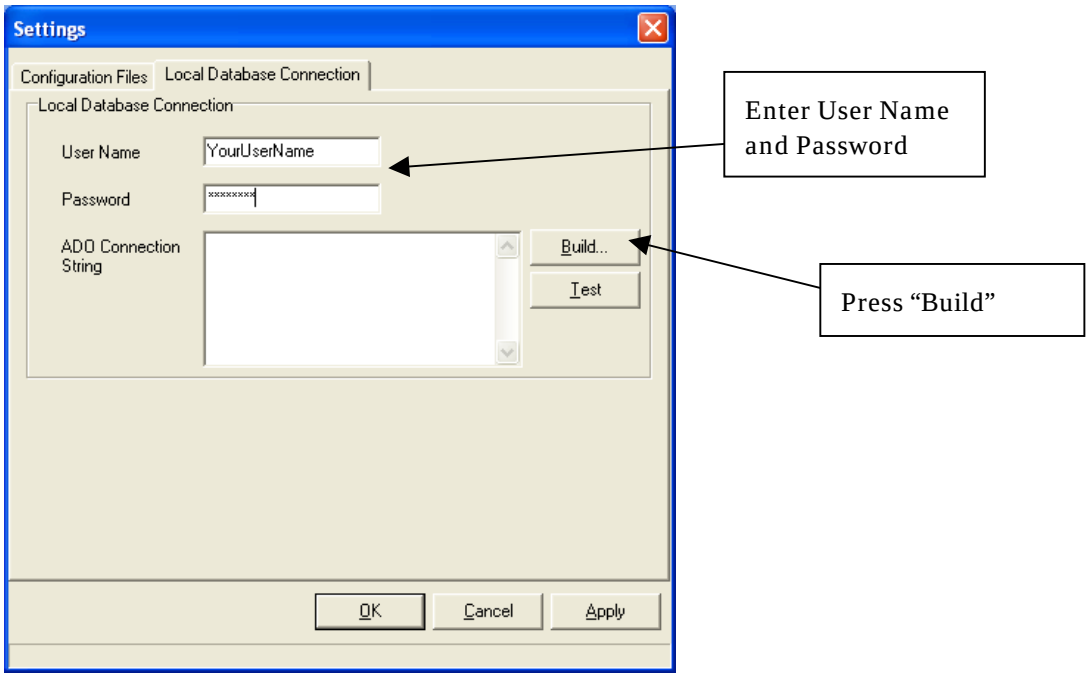
The first time you start the Replication Manager application, the following screen appears as a prompt to set up the connection to the Replica database.



Selecting the Replication Type as "REPLICA" from the drop-down list means the Replication Manager application fills in the other fields.

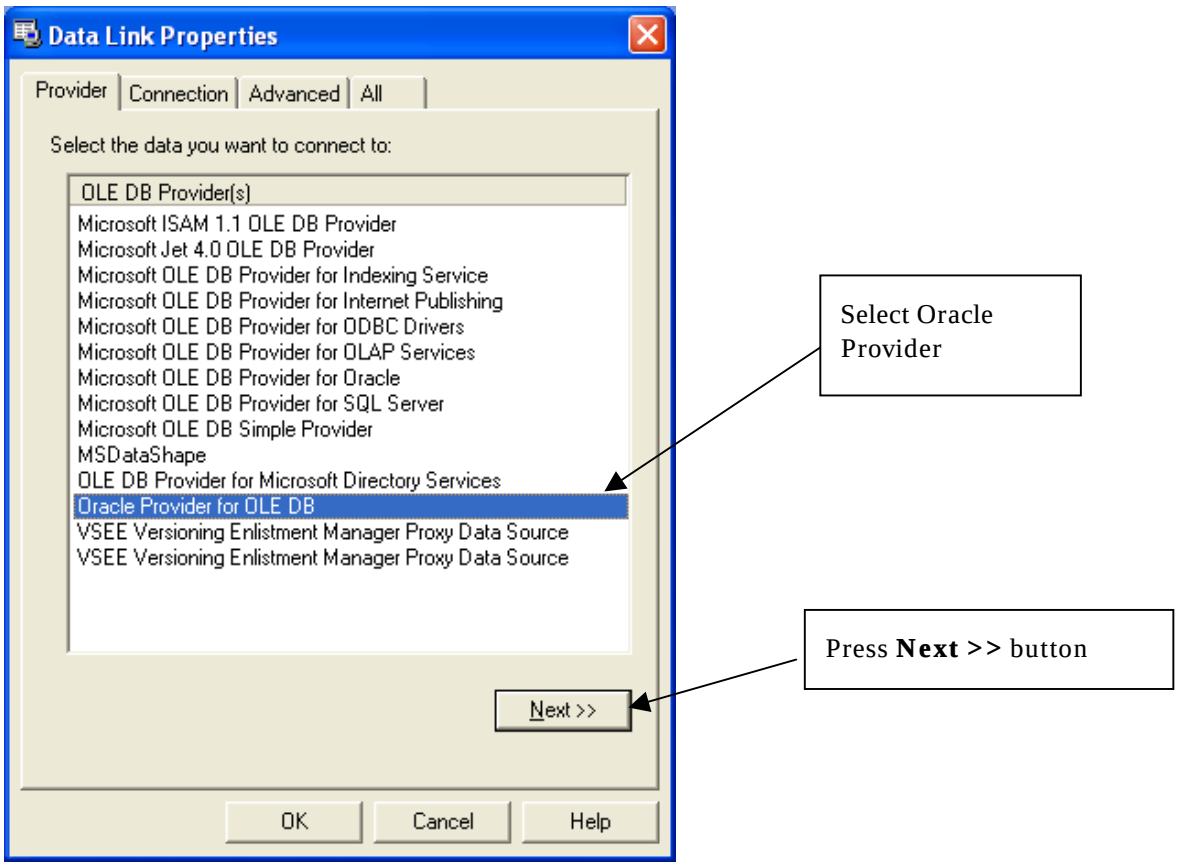


Select "Local Database Connection" tab.



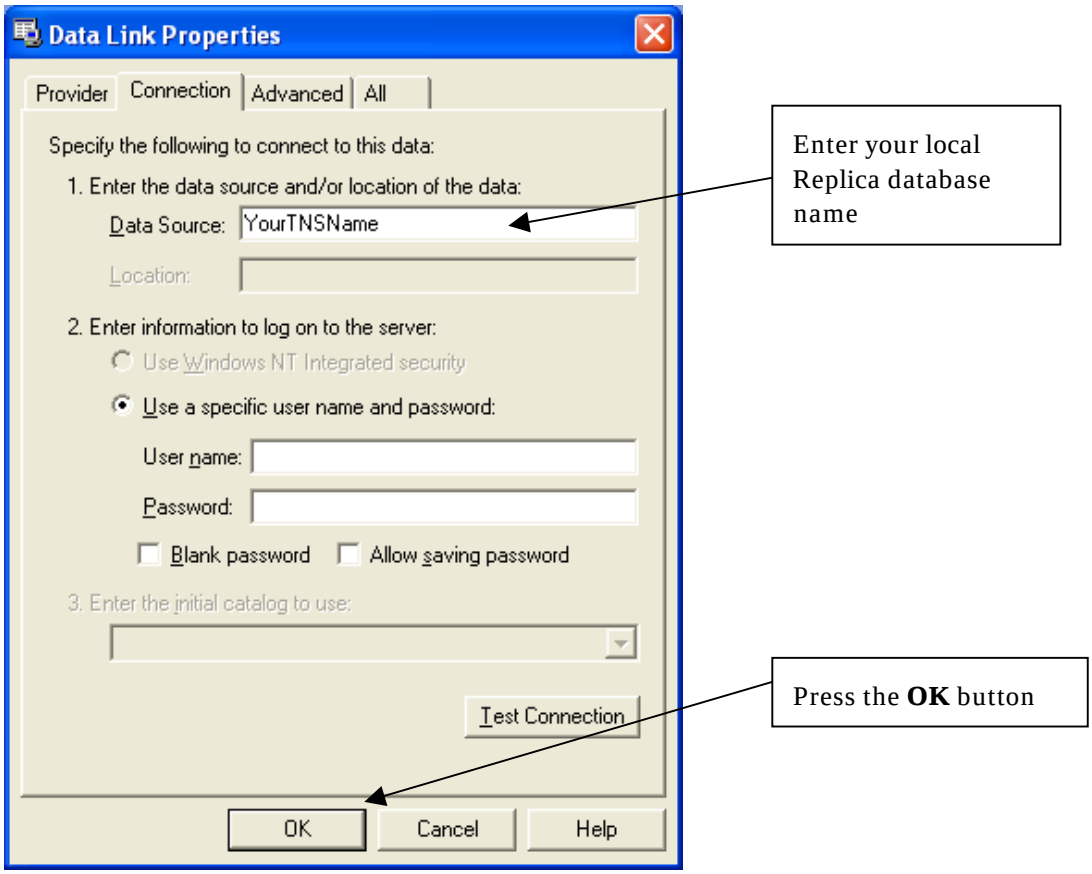
The **Local Database Connection** tab allows you to enter the details for the database connection to your local Replica database. Fill in the **User Name** and **Password** fields then press the **Build...** button to set up the ADO Connection.

Expect to see the Data Link Properties window.

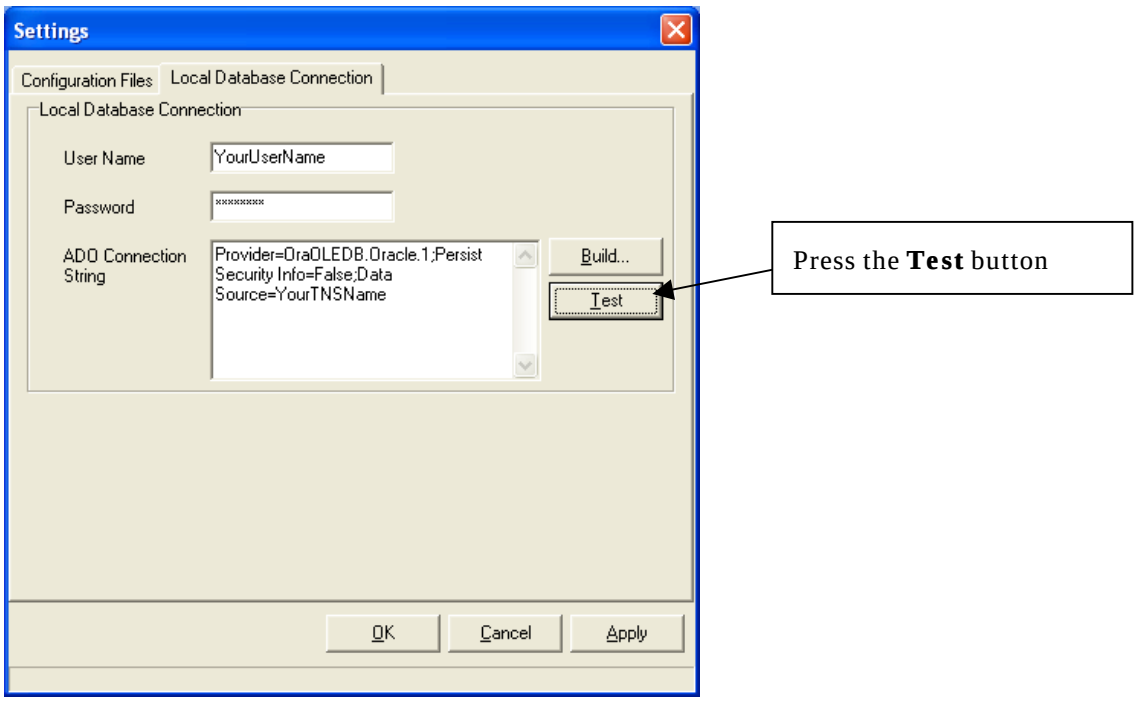


Select the OLE DB Provider as the “Oracle Provider for OLE DB”. If this option is not in your list, choose “Microsoft OLE DB Provider for Oracle”.

Press the **Next >>** button, and expect to see the Connection tab of the Data Link Properties window.

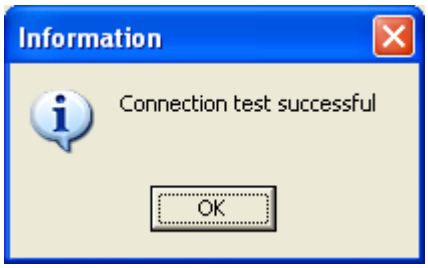


Enter the data source, being the same as the TNSName.ora entry for your Replica database and the **Host String** in SQL*Plus. Press the **OK** button and expect to see the Local Database Connection tab on the Setting window.

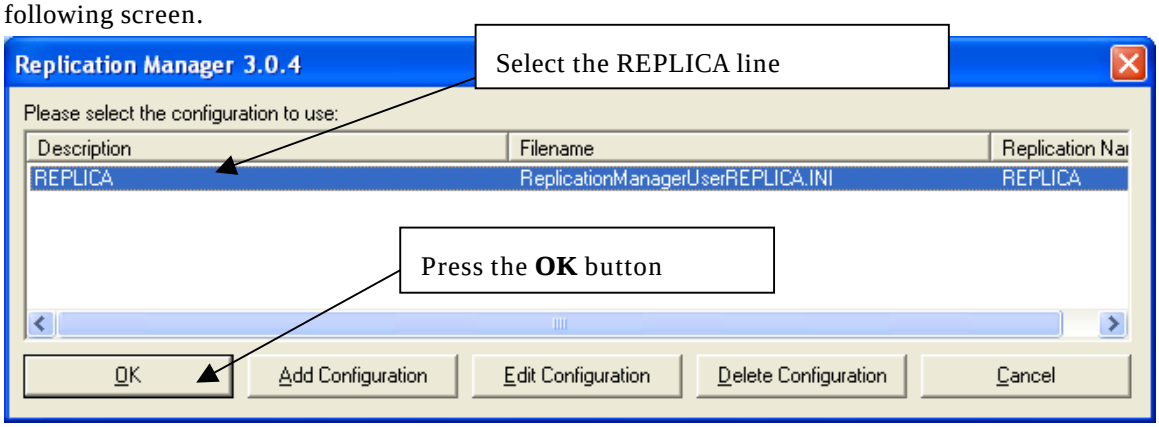


Press the **Test** button to make sure the connection information is correct.

Expect to see the message “Connection Test Successful”.

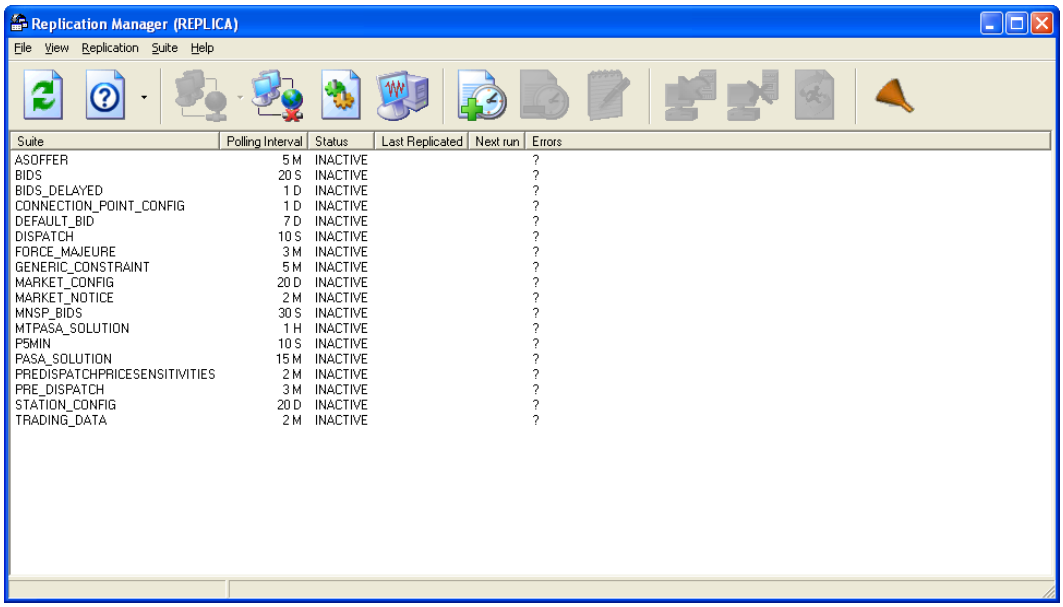


Press the **OK** button on this message and the **OK** button on the Settings window and expect to se to the following screen.



Select the REPLICA line and press the **OK** button.

Expect to see the main Replication Manager screen.



The setting up is complete.

Next time you start the Replication Manager, expect to go straight to the main Replication Manager screen.