

Installing CICS Resource Manager Interface for z/OS

If you intend to use Adabas Transaction Manager through the CICS Resource Manager Interface (RMI), use the following installation procedure in conjunction with the installation procedure for the Adabas task-related user exit (TRUE) described in the *Adabas Installation for z/OS* documentation.

Note:

CICS/TS Version 1.2 or above is required.

- Installation Overview
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Installation Overview

The steps needed for a successful installation are as follows:

Step	Description
	Before proceeding with the installation, ensure that all necessary preparation has been completed as described in section Before You Install.
1	Perform standard installation procedure for Adabas Transaction Manager, and verify the installation.
2	Follow the steps for the installation of the Adabas TRUE, with the changes described below.
3	Establish CICS definitions for Adabas Transaction Manager RMI programs.
4	Copy the Adabas Transaction Manager RMI modules into a CICS RPL library.
5	Enable the required CICS facilities.
6	Define client runtime controls for the CICS system.
7	Activate the Adabas Transaction Manager CICS Resource Manager Interface (RMI).

Installation Procedure

The following is the general RMI installation procedure. All steps are required for a successful installation.

The actual installation depends on your particular requirements and the specific contents of the release package provided by Software AG for your site. Information in the release package is intended for your system. If that information differs from the information in this section, use the release package

information or contact Software AG technical support for assistance.

Step 1: Install Adabas Transaction Manager

It is strongly recommended that you first install and verify the execution of the ATM transaction manager and client proxy without activating the RMI.

Step 2: Install the Adabas TRUE (SMA Job I056, Step 0010)

This process is fully described in the *Adabas Installation for z/OS* documentation. However, the installation process for the RMI differs in a few points from that described. Follow the instructions below as you go through the installation process.

▶ to activate the RMI:

1. Set the following values in the ADAGSET macro:

RMI=YES	activate the CICS Resource Manager Interface (RMI)
TRUE=YES	run as a task-related user exit (TRUE)

2. When linking the Adabas command-level link component, you must link in the Adabas System Coordinator stub module.
3. When you assemble and link the Adabas task-related user exit, include the Adabas Transaction Manager RMI interface module in the link step. Sample job ATMI080X can be adapted for this purpose.

Step 3: Establish CICS Definitions for the RMI Programs (SMA Job I005, Steps 2211,2212,2230,2231)

▶ to establish CICS definitions for the RMI programs:

- Use DFHCSDUP or the CEDA RDO entry panels to add the definitions delivered in member DFHDUP in the supplied JOBS library.

Note:

If storage protection is active in your CICS system, EXECKEY(CICS) should be specified for the PROGRAM definitions.

Step 4: Copy RMI Modules into a CICS RPL library

The following programs, supplied in the ATM load library, must be made available in the DFHRPL DD concatenation of your CICS JCL procedure:

```
ATMRMIR0
ATMRMIRS
ATMORID
```

Step 5: Enable the Required CICS Facilities

Adabas Transaction Manager uses the External CICS Interface (EXCI) to trigger the re-synchronization of incomplete transactions during restart. Therefore, the CICS system in which you are installing the RMI must have inter-region communication enabled, and must be enabled for EXCI, the external EXEC CICS interface, which requires a generic connection. Refer to the relevant IBM documentation for details.

If your installation uses a security system, such as RACF, ensure that the User ID under which ATM transaction manager executes has authorization to use EXCI.

Step 6: Define Client Runtime Controls for CICS

Use Adabas Transaction Manager Online Services to define the required client runtime controls for the CICS job.

The required controls are described in section Parameters. Some special considerations are necessary when running with the RMI active. Define a set of client runtime controls for the CICS job. Pay particular attention to the `Client-side TransactionManager`, `TransactionModel` and `TransactionControl`, as well as the `GenerateExternalSyncpoint` client controls.

Step 7: Activate CICS Resource Manager Interface

 **to activate the CICS Resource Manager Interface:**

1. Ensure that the CICS EXCI load library is available in the STEPLIB concatenation of your Adabas Transaction Manager job or JCL procedure.
2. Start CICS.
3. Ensure that the Adabas System Coordinator daemon is executing.
4. Start the ATM transaction manager.