Installing CICS Resource Manager Interface for z/VSE

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/ESA Version 4.1 or above or CICS/TS Version 1.2 or above is required.

- Installation Checklist

- Installation Procedure

Installation Checklist

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

This process is fully described in the *Adabas Installation for VSE/ESA* 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

▶ **To establish CICS definitions for the RMI programs:**

- Use DFHCSDUP or the CEDA RDO entry panels to add the following definitions to your CSD file:

```
DEFINE PROGRAM(ATMRMIR0) GROUP(ADABAS)
DESCRIPTION(ATM Vvrs RESYNC DRIVER INTERFACE)
LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(YES) USAGE(NORMAL)
USELPACOPY(NO) STATUS(ENABLED) CEDF(NO) DATALOCATION(ANY)
EXECKEY(USER) EXECUTIONSET(FULLAPI)

DEFINE PROGRAM(ATMRMIRS) GROUP(ADABAS)
DESCRIPTION(ATM Vvrs RESYNC DRIVER)
LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(YES) USAGE(NORMAL)
USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
EXECKEY(USER) EXECUTIONSET(FULLAPI)

DEFINE PROGRAM(ATMORID) GROUP(ADABAS)
DESCRIPTION(ATM Vvrs PARAMETER OVERRIDER)
LANGUAGE(ASSEMBLER) RELOAD(NO) RESIDENT(YES) USAGE(NORMAL)
USELPACOPY(NO) STATUS(ENABLED) CEDF(YES) DATALOCATION(ANY)
EXECKEY(USER) EXECUTIONSET(FULLAPI)

DEFINE TRANSACTION(TMRS) GROUP(ADABAS)
DESCRIPTION(ATM Vvrs RESYNC DRIVER)
PROGRAM(ATMRMIRS) TWASIZE(128) PROFILE(DFHCICST) STATUS(ENABLED)
TASKDATALOC(ANY) TASKDATAKEY(USER) STORAGECLEAR(NO)
```

```
RUNAWAY(SYSTEM) SHUTDOWN(DISABLED) ISOLATE(YES) DYNAMIC(NO)
PRIORITY(1) TRANCLASS(DFHTCL00) DTIMOUT(NO) INDOUBT(BACKOUT)
RESTART(NO) SPURGE(NO) TPURGE(NO) DUMP(YES) TRACE(YES)
RESSEC(NO) CMDSEC(NO)
```

—where *vrs* is the version, revision, and SM level of Adabas Transaction Manager.

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 LIBDEF 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.

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-sideTransactionManager`, `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 LIBDEF SEARCH concatenation of your Adabas System Coordinator daemon job or JCL procedure within which the ATM transaction manager is to run as a service.

2. Ensure that this Adabas System Coordinator daemon is running.

3. Start CICS.