

Adabas Transaction Manager

Print Suspect/Recovery Records

Version 8.2.2

April 2020

This document applies to Adabas Transaction Manager Version 8.2.2 and all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 About this Documentation

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <i>folder.subfolder.service</i> , APIs, Java classes, methods, properties.
<i>Italic</i>	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
Monospace font	Identifies: Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the symbol.
[]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

Online Information and Support

Software AG Documentation Website

You can find documentation on the Software AG Documentation website at <https://documentation.softwareag.com>.

Software AG Empower Product Support Website

If you do not yet have an account for Empower, send an email to empower@softwareag.com with your name, company, and company email address and request an account.

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- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

2 Print Suspect/Recovery Records

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This section describes how to print suspect records and recovery records.

Suspect Records

Recovery information relating to incomplete transactions is stored in the suspect transaction portion of the transaction manager's recovery file in certain situations. For example:

- during a forced restart of the transaction manager; or
- when an administrator forcibly terminates a distributed transaction using Online Services.

In these cases, transactions are lost to the transaction manager and therefore cannot be completed normally. Transaction integrity may be compromised. For example, a branch of a distributed transaction on one database might be committed while another branch is backed out.

Each record represents a suspect transaction. The print program T1STJP can be used to:

- identify the suspect transactions; and
- determine their status when they were last under the control of the transaction manager.

Recovery Records

Recovery information relating to all prepared distributed transactions or branches which are incomplete are stored in the recovery portion of the transaction manager's recovery file.

The print program T1STJP can also be used to print these records.

Running the Print program T1STJP

The sample job member `ATMSPRNT`, which is located in the installation `JOBS` library, can be used to run the print program T1STJP. Before executing this job, modify the `ADARUN` parameters and `Natural` parameters according to the requirements of your installation.

This utility requires that the transaction manager is active. Set up the job step as if it were using Adabas Transaction Manager to coordinate its transactions. That is, suitable client runtime controls must be defined, the job step must use an `ADALNK` module which has the Adabas System Coordinator stub linked in, and the Adabas Transaction Manager library must be available to the job step.

Program execution is controlled by parameters read from the `CMSYNIN` input. Two parameters are expected:

Parameter	Description
Record ID	<p>The identity of the records for which data will be read. Possible values are</p> <ul style="list-style-type: none"> ■ STJ: for suspect transaction records ■ PRR: for recovery records <p>Note: The contents of the recovery records are likely to change frequently and rapidly. Thus, the report has only limited use in determining the status of a transaction that cannot be brought to completion for some reason. Online Services can also be used to display suspect transaction records or recovery records online.</p> <p>Note: The batch hardcopy report from the print program does not include an interpretation of a transaction's status codes; for these, you need to use Online Services.</p>
TM ID	<p>The node ID of the transaction manager. If this parameter is omitted, it will default to the node ID of the transaction manager that is associated with the Adabas System Coordinator Group specified in the job's client runtime controls.</p>

Suspect transaction and recovery records are not reported in any particular sequence. The field marked "Last act" in the report provides an indication of the time when the record was stored.

