

How-To Guide Configuring Transaction Recovery History

Document Type: External

Document Version: 1.0

Date: 07/06/2022

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Introduction

As they occur in the respective devices, Retail transactions, CM (Cash Management) transactions and System Events will be queued to be sent to the EM and will be updated in real time to the EM.

Once sent to the EM, these records can be viewed in **Inbound Document Viewer**.

In an instance where the EM is not available for Devices to send Transaction details, for example due to a network connection issue, all the records pending will be sent from a connected device to the EM as soon as the EM is available.

Records not passed to the EM will remain queued for up to seven (7) days and will be removed from the queues afterwards. There could also be instances where, due to technical issues, the queues were cleared but the records were not fully passed to the EM.

For such periods that the EM was not updated, the EM has the option to recover the records that were processed at end-devices during that period. This recovery is done through a Transaction Recovery Request.

Note however, that any records purged at devices will be deleted permanently and will not be available to be sent to the EM in response to a Transaction Recovery Request.

This guide explains the process of configuring the EM in order to Broadcast a Transaction Recovery Request to all subscribed devices, requesting the devices to send to the EM, details of all retail transactions, Cash Management (CM) transactions and system events processed during a specified window of time. The Transaction Recovery Tool is configured in order to recover transactions from below device types:

- POS
- Master POS
- Back Office
- PDP Servers

Overview

This guide will cover the configuration for the following:

- User Role Enabling privileges to access and configure Transaction Recovery Tool.
- **Transaction Recovery Tool** A maintenance application which adds a new scheduled job to send a Transaction Recovery Notification.
- Transaction Recovery History Viewing Transaction Recovery History and status.

Transaction Recovery History Configuration

This section covers all the basics that are required to understand the Transaction Recovery History Configuration.

User Role Configuration

Adequate privileges are required for a user to access and carry out Transaction Recovery Tool functions.

To enable these privileges, follow the steps below: Navigate to User Role Maintenance using the Search or the path Configuration -> HR -> User Roles



In the User Role Maintenance, select the **Edit** icon of the User Role that you wish to enable the privilege for.

Navigate to the **Authorised Functions tab** of the selected User Role and apply the following filters:

Application Package > Enactor Web Maintenance Process > Transaction Recovery Broadcaster

| User Role Maintenance | | | | | : | ? II × |
|---|---|-------------------------------|--|-----|---------------|--------|
| Save Cancel | ESASSIST_UK for region 'United Kingdom' | rtions | | | | |
| Application Package Process | Enactor Web Maintenance | Function ID Function Name | Contains | | | Hide |
| Package | Process | | Function ID | | Function Name | |
| Enactor Web Mainter | ance Transaction | Recovery Broadcaster | enactor. Transaction Recovery Broadcaster. | Run | Run | |
| Enable All Displayed Functions X Disable All Displayed Functions Page 1 of 1 Page Size 10 C | | | | | | |

Enable the following privileges:

| Application | Function ID | Description |
|-------------|--|----------------------|
| Package | | |
| Enactor Web | enactor.TransactionRecoveryBroadcaster.Run | Allows the User to |
| Maintenance | | configure and run a |
| | | Transaction Recovery |
| | | Request. |

Application Package > Enactor Web Maintenance Process > Transaction Recovery History

| Jser Role Maintenance ? II × | | | | | | | |
|---|---|------------------------------|--------------|---------------|----------------------|-------------------------------------|------------------|
| Save Sancel | | | | | | | |
| You are editing user role ID: 'SALESASSIS' | T_UK' for region 'United Kingd | om' | | | | | |
| General Authorised Functions | Special Functions | Report Functions | | | | | |
| Application Package Enactor W | leb Maintenance | • | Function ID | | Contains | • | Hide |
| Process | n Recovery History | * | Function Nan | ne | Starts With | • | |
| ▼ Apply Filters 🌖 Reset Filters | 19.9 J | | | | | | |
| Package | | Process | | Function II | D | | Function Name |
| Enactor Web Maintenance | | Transaction Recovery History | | enactor.trans | actionRecoveryHis | story.Cancel | Cancel |
| Enactor Web Maintenance | | Transaction Recovery History | | enactor.trans | actionRecoveryHis | story.List | List |
| Enactor Web Maintenance Enactor Web Maintenance | | Transaction Recovery History | | enactor.trans | actionRecoveryHis | story. Remove | Run |
| | Disable All Disabased Eventhics | | | | | | |
| Page 1 of 1 | Page Size 10 | 015 | | | | | |
| Enable the fol | lowing pr | ivilogos: | | | | | Activate Windows |
| | | ivileges. | | | | D | |
| Application | Function | n ID | | | | Description | |
| Package | | | | | | | |
| Enactor | enactor | transactionRecove | eryH | istoi | ry.C | Allows the User to c | ancel a record |
| Web | ancel | | | | - | in Transaction Recovery History | |
| Maintonan | | | | | | | |
| Wantenan | | | | | | | |
| се | | | | | | | |
| Enactor | enactor | transactionRecove | eryH | isto | ry.Li | Set this, along with | |
| Web | st | | | | | enactor.transactionRecoveryHistor | |
| Maintonan | | | | | | y Run to allow the User to view the | |
| Walliteriali | | | | | | y.Rull to allow the C | iser to view the |
| се | | | | | | list of Transaction R | ecovery |
| | | | | | | History. | |
| Enactor | enactor | transaction Recove | ervH | isto | rv.R | Allows the User to r | emove / delete |
| Woh | | | | | a record in Transact | ion Pocovory | |
| | a record in Transaction Recovery | | | | ION RECOVERY | | |
| Maintenan | Maintenan History. | | | | | | |
| се | | | | | | | |
| Enactor | enactor.transactionRecovervHistorv.R Set this. along with | | | | | | |
| Web | | | | , | enactor transaction | RecovervHistor | |
| | | | | | | v list to allow the U | cor to viou the |
| Maintenan | | | | | | | sei to view the |
| ce | | | | | | list of Transaction R | ecovery |
| | | | | | | History. | |

Ensure that the selected User has the necessary privileges enabled by ticking on the relevant function/s that are listed.

Select **Save** and make sure to log out and back in for these changes to be reflected to the User, assigned with the User Role configured.

Transaction Recovery Broadcaster Configuration

This maintenance application is used to create a new scheduled job to send a Transaction Recovery Notification to desired end-devices.

Navigate to Transaction Recovery Tool Maintenance using the Search or the path Administration -> Data Management -> Broadcasts -> Transaction Recovery Tool

| 7 | | K |
|--|--|--|
| Administration | Data Management Broadcasts | Recovery Tool |
| Transaction Recovery Tool | | ? н х |
| Please configure which transactions should be recovered, a | and select the devices to where the notification should be sent. | |
| Run At Date/Time | 00 June V 202 12 : 40 : 13 | |
| Resend Transactions From* | 06 June V 202 12 49 11 | |
| Resend Transactions To* | 06 June V 202 1 12 45 13 | |
| Topics* | Device v | |
| | Expand AI Collapse AII | |
| | Name Selected | |
| | B () All Regions | |
| | B () Austria | |
| Regions | B (B) Boonia | |
| | R () Canala | |
| | 8 a. on | |
| | | |
| | Czaeli Republic | |
| | | |
| Analashia Tina Madawa* | Dey Start Time End Time | |
| - approached filling versioning | 💠 Add Time Window Sunday 💌 12 46 12 45 | |
| * Denotes Mandatory | | Activate Windows Go to Settings to activate Windows |

Following must be defined in the Transaction Recovery Tool Maintenance screen that opens:

| Configuration | Description |
|--------------------------|--|
| Run At Date/Time | Date and time when Transaction Recovery Tool will send |
| | out the transaction recovery request to the subscribed |
| | devices. |
| Resend Transactions From | Starting date and time of transaction recovery period. |
| Resend Transactions To | Ending date and time of transaction recovery period. |
| Topics | Specify the target devices of the Estate to which the |
| | transaction recovery request is to be broadcast. |
| | Target devices selection is two dimensional; first to select |
| | the level of topology in the Topics property and then select |
| | individual elements at the selected level by marking |
| | checkboxes in the Regions property. Selection is restricted |
| | to display POS, Master POS, Back Office and PDP Server |
| | only. |
| Applicable Time Windows | Time window during when the Transaction Recovery will be |
| | broadcast to the EM from an end-device. |
| | The user can define multiple time windows. |
| | In the event multiple time windows are set, the end-device |
| | will broadcast the data to the EM during earliest time |
| | window. |

Clicking on the **Submit** button will open the following popup message indicating the user to verify the number of devices and the period to recover the transactions from:



Click on **Save** and upon successful verification, the Transaction Recovery Monitor will be run as a scheduled diary entry job and the user will be navigated to the following screen:



Clicking on **View** button will navigate the user to the Transaction Recovery History Maintenance.

Transaction Recovery History

Transaction Recovery History will enable to view the status of the Transaction Recovery Broadcast, sent to the EM from the end-devices, as a response to the Transaction Recovery Request.

Navigate to Transaction Recovery Tool Maintenance using the Search or the path Administration -> Data Management -> Broadcasts -> Transaction Recovery History



Transaction Recovery History page lists all Transaction Recovery Requests:

| Transaction Recovery History ? II X | | | | | | |
|---|-------|--------------------------|---------|--|--|--|
| Transaction Recovery Equals ✓ ✓ Recovery Request After ✓ ✓ ✓ Recovery Request Before ✓ ✓ ✓ This ✓ ✓ ✓ | | | | | | |
| Options Transaction Recovery ID | User | Recovery Date \diamond | Status | | | |
| ∞ 面 → 746e5a07-becf.4322-a071-e0d5841420e9 | ADMIN | 07/06/2022, 07:30 | Started | | | |
| ↔ 🛍 → d9ef8f08-393f-434c-81e6-041427bb8200 | ADMIN | 07/06/2022, 06:38 | Started | | | |
| Page 1 of 1 Page Size 10 C | | | | | | |

User can view, delete and recover records using the appropriate icons.

The status of the Transaction Recovery job is displayed, and a job could have one of below statuses.

| Status | Description | |
|--------------------------|--|--|
| Started | Transaction Recovery Request has been sent to target | |
| | devices. | |
| Successful | All transactions from all target devices received by the EM. | |
| Partially receipted | ted EM has successfully received details of least one | |
| | transaction. | |
| Partially receipted with | EM has successfully received details of the transactions | |
| failures | while some have failed. | |
| Failed | All transactions have failed. | |

Clicking on View icon will open a window containing details of the individual Transaction Recovery job:

Transaction Recovery History - General tab

The General tab indicates the general details of the selected entry, as was updated when creating the Transaction Recovery Request via Transaction Recovery Tool. Additionally, the status is also mentioned.

Transaction Recovery History - Recipients tab

+ Back

| 🗕 Back 🕻 | ; | | | | | | |
|----------------|--------------------------------------|-----------------------------|----------------|-----------------------|----------|---------------------|---|
| ou are viewing | Transaction Recovery ID: '746e5a07-b | ecf-4322-a071-e0d5841420e9' | | | | | |
| General | Recipients | | | | | | |
| Options | Device | Status | Items Affected | Transactions Received | Progress | Date/Time Processed | Last Updated |
| | aut.MPOS1@0001.enactor | Not Subscribed | 0 | 0 | | | 07/06/2022 07:30:26 |
| | aut.PDC6@0001.enactor | Not Subscribed | 0 | 0 | | | 07/06/2022 07:30:26 |
| <i>8</i> 0 | aut.POS1@0001.enactor | Acknowledged | 480 | 478 | | 07/06/2022 07:32:50 | 07/06/2022 07:32:50 |
| | aut.POS6@0001.enactor | Not Subscribed | 0 | 0 | | | 07/06/2022 07:30:26 |
| | aut.WebPOS1@0001.enactor | Not Subscribed | 0 | 0 | | | 07/06/2022 07:30:26 |
| 00 | autopos11@0001.enactor | Acknowledged | 60 | 60 | | 07/06/2022 07:33:21 | 07/06/2022 07:33:21 |
| | autopos15@0001.enactor | Acknowledged | 0 | 0 | | 07/06/2022 07:32:44 | 07/06/2022 07:32:44 |
| <i>0</i> 0 | autopos1@0001.enactor | Acknowledged | 18 | 18 | | 07/06/2022 07:32:44 | 07/06/2022 07:32:44 |
| | autopos2@0001.enactor | Acknowledged | 0 | 11 | | 07/06/2022 07:32:49 | 07/06/2022 07:32:49 |
| <i>0</i> 0 | autopos3@0001.enactor | Acknowledged | 71 | 71 | | 07/06/2022 07:33:16 | 07/06/2022 07:33:16 Activate Windows |
| <u> </u> | autonos4/@0001 enactor | Acknowledned | 5 | 5 | | 07/06/2022 07:32:50 | Go 107/06/2022 07:33:50 vate Windo |

? II ×

The Recipients tab displays the status of each target device in the selected entry. A device could have one of the below statuses.

| Device status | Description |
|---------------------|---|
| Sent | Transaction Recovery Request has been sent to target |
| | devices. |
| Not Subscribed | Device is not subscribed. |
| Acknowledged | EM has successfully received an acknowledgement from |
| | the device, that the device received the Transaction |
| | Recovery Request. |
| Partially receipted | EM has successfully received details of at least one |
| | transaction. |
| Successful | EM has successfully received details of all transactions. |
| Failed | All transactions got failed. |
| | |
| | Note: There is another instance where EM would mark a |
| | Device status as failed: |
| | Devices may continue to send Transactions to the EM after |
| | the Applicable Time Window has expired. Hence, the |
| | Device status will automatically be set to 'Failed' once |
| | twenty-four (24) hours have lapsed from the time set for |
| | 'End Time' under Applicable Time Windows in Transaction |
| | Recovery Tool. |

Clicking on the **View** icon will list all the individual transactions that are broadcast from that device. The screen displayed is similar to below:

| Trans | Transaction Recovery History | | | | | | | |
|------------|--|-------------------|----------|--|--|--|--|--|
| 🗲 Bad | ← Back C | | | | | | | |
| You are | You are viewing Transaction Recovery ID: '746e5a07-becf-4322-a071-e0d5841420e9' for device 'aut POS1@0001 enactor' | | | | | | | |
| | Transaction ID | Туре | Status | Last Updated | | | | |
| | 0001000000012201191139145 | CMTransaction | Received | 07/06/2022 07:31:50 | | | | |
| | 0001000000022201191139192 | CMTransaction | Received | 07/06/2022 07:31:48 | | | | |
| | 0001000000032201191140545 | CMTransaction | Received | 07/06/2022 07:31:48 | | | | |
| | 0001000000282205301123041 | CMTransaction | Received | 07/06/2022 07:31:55 | | | | |
| | 0001000000292205301125358 | CMTransaction | Received | 07/06/2022 07:31:55 | | | | |
| | 0001000000302205301126404 | CMTransaction | Received | 07/06/2022 07:31:57 | | | | |
| | 0001000000312205301127400 | CMTransaction | Received | 07/06/2022 07:32:05 | | | | |
| | 0001000000322205301128448 | CMTransaction | Received | 07/06/2022 07:31:59 | | | | |
| | 0001000000332205301133578 | CMTransaction | Received | 07/06/2022 07:32:08 | | | | |
| | 0001000000342205301135142 | CMTransaction | Received | 07/06/2022 07:32:29 | | | | |
| | 0001000000352205301153415 | CMTransaction | Received | 07/06/2022 07:32:25 | | | | |
| | 0001000000362205301202434 | CMTransaction | Received | 07/06/2022 07:32:25 | | | | |
| | 0001000000372205301203380 | CMTransaction | Received | 07/06/2022 07:32:30 | | | | |
| | 0001000000382205301208049 | CMTransaction | Received | 07/06/2022 07:32:32 | | | | |
| | 0001000000392205301209110 | CMTransaction | Received | 07/06/2022 07:32: <u>33</u> tivate Windows | | | | |
| <i>3</i> 6 | 00010201000012202281542526 | RetailTransaction | Received | 07/06/2022 07:31/50 to Settings to activate Window | | | | |

Clicking on the **View** icon against a transaction record will display the Retail Transaction Archive entry for that transaction (applicable only for Retail Transactions).

| Retail T | ansaction Arch | nive Search R | esults | | | | | | | | | ? II X |
|---------------------|--|-------------------|-------------|----------------|-----------------------|----------------|----------------------|-------------------|-------------------|-------------------------|---------|------------------|
| Results for | or search criteria: | | | | | | | | | | | |
| Transac Training | ansaction ID: 00010101000012204190415399 Transaction Voided : No aiming Mode : No | | | | | | | | | | | |
| | Location | Terminal | Transaction | Originated By | Originating Device ID | Completed By | Completing Device ID | Created On | Completed On | Last Updated | Total | |
| æ 🖻 | Enactor Store | 101 | 1 | Michael Browne | mpos1@0001.enactor | Michael Browne | mpos1@0001.enactor | 19/04/2022, 05:15 | 19/04/2022, 05:16 | 04/10/2022, 08:31 | £16.80 | |
| K F | age 1 of 1 | † 6 | c | | | | | | | | | |
| + Back | C Resubmit Filte | ered Transactions | | | | | | | | Activate Go to Setti | Windows | \$ e Windows. |

Records will be created in Inbound Document Viewer of Document Type 'transactionRecoveryAcknowledgement'.

Inbound Document Viewer

For Retail and Cash Management transactions and System Events that are recovered from Devices, records will be made in Inbound Documents, which can be viewed in Inbound Document Viewer.

Navigate to Inbound Document Viewer using the Search or the path Administration -> Processing -> Inbound Documents



Document Type > Contains > 'transactionRecoveryAcknowledgement' Queue Name > Estate Manager Transaction Processing

Records received from the EM in response to a Transaction Recovery Request will be listed with status 'Processed'.

| Inbound Document Viewer ? II x | | | | | | | | |
|--|-------------|------------------------|-----------|--------------|------------------------------------|-------------------|-----------|--|
| Document ID Document Type Contains TransactionRecoveryAcknowledgement Source Starts Win Source ID Starts Win Content Type Starts Win Starts Equals Image: Content Starts Start Date Starts Estate Manager Transaction Processing End Date Image: Content Starts Image: Content Starts Transaction Processing Image: Content Starts Image: Content Starts Image: Content Starts | | | | | | Hide | | |
| | Document ID | Source | Source ID | Content Type | Document Type | Date Received | Status | |
| ∞ ₫ ! | 14716 | pdpServer@0001.enactor | | XML | transactionRecoveryAcknowledgement | 05/10/2022, 12:31 | Processed | |
| き 前 ! | 14714 | pdpServer@0001.enactor | | XML | transactionRecoveryAcknowledgement | 05/10/2022, 12:31 | Processed | |
| ∞ ≞ ! | 14717 | pdpServer@0001.enactor | | XML | transactionRecoveryAcknowledgement | 05/10/2022, 12:31 | Processed | |
| ∞ ₫ ! | 14715 | pdpServer@0001.enactor | | XML | transactionRecoveryAcknowledgement | 05/10/2022, 12:31 | Processed | |
| ∞ 🗊 ! | 13145 | pos6@0001.enactor | | XML | transactionRecoveryAcknowledgement | 05/10/2022, 12:30 | Processed | |
| Reget of 1 Page Size 1000 C Activate Windows Go to Settings to activate Windows. | | | | | | | | |

If an already processed transaction was recovered again, the record for that transaction will have the status 'Duplicated'.

About This Document

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The amendment history of this document can be found in the table below.

Current Document Version information

Document Context

This document is part of the Enactor Product Documentation Series. All Enactor products include a comprehensive documentation set designed to improve understanding of the product and facilitate ease of use.

Document Inquiries

At Enactor we aspire to producing the highest quality documentation to reflect and enhance the quality of our product. If you find that the document is inaccurate or deficient in any way, please assist us in improving our standard by letting us know.

For matters of document quality or any other inquiries regarding this document please contact:

By Email: documentation@enactor.co.uk

Document History

The following versions of the document have been produced:

| VERSION | STATUS | ISSUE DATE | AUTHOR | REASON FOR ISSUE |
|---------|------------------|---------------|------------------|------------------|
| 1.0 | Initial Draft | 07/06/22 | Rasangi De Silva | Initial version. |