

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

	Cancel iting user role ID: 'SALESASSIST_UK' for region 'United Ki	ngdom'					
Genera	al Authorised Functions Special Functions	Report Functions					
plication	ion Package Enactor Web Maintenance	•	Function ID	Contains	•		H
ocess	Transaction Recovery Broadcaster	*	Function Name	Starts With	•		
App	ply Filters \mathfrak{I} Reset Filters $\xi_{ab}^{\gamma_{ab}}$						
	Package	Process		Function ID		Function Name	
				enactor. Transaction Recovery Broadcas		Run	

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

User Role Maintenance							? II X	
You are editing user role ID: 'SALESASSIS'	[_UK' for region 'United Kingdo	iom'						
General Authorised Functions	Special Functions	Report Functions						
Application Package Enactor W	eb Maintenance	*	Function ID		Contains	•	Hide	
Process Transactio	n Recovery History	~	Function Na	ime	Starts With	•		
▼ Apply Filters 🄊 Reset Filters								
Package		Process		Function	ID		Function Name	
Enactor Web Maintenance		Transaction Recovery History				Cancel		
Enactor Web Maintenance Enactor Web Maintenance		Transaction Recovery History Transaction Recovery History			nsactionRecoveryHi nsactionRecoveryHi		List	
 Enactor Web Maintenance 		Transaction Recovery History			sactionRecoveryHi		Run	
✓ Enable All Displayed Functions	Disable All Displayed Function	ons						
Page 1 of 1	Page Size 10 C						Activate Windows	
Enable the fol	lowing pr	rivileges:					ALTIVATE WITH HUX	
Application	Functior					Description		
Package	i uniccioi					Description		
	o lo o otro v	trancationDooo	الروري	1:0+0				
Enactor		transactionRecoveryHistory.C			ry.C	Allows the User to cancel a record		
Web	ancel					in Transaction Recovery History.		
Maintenan								
ce								
Enactor	enactor.	.transactionRecov	veryH	listo	ry.Li	Set this, along with	า	
Web	st					enactor.transactionRecoveryHistor		
Maintenan							•	
						y.Run to allow the User to view the list of Transaction Recovery		
ce							Recovery	
						History.		
Enactor	enactor.	transactionReco	veryH	listo	ry.R	Allows the User to remove / delete		
Web	emove					a record in Transaction Recovery		
Maintenan						History.		
се						,		
				1		Catalata alara 11		
Enactor		transactionReco	veryH	iisto	ry.K	Set this, along with		
Web	un					enactor.transactio		
Maintenan						y.List to allow the	User to view the	
ce						list of Transaction	Recovery	
						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		Transaction
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 () Austra	
Regions	B 🛞 Bosna	
	B Carasa	
	B Caseh Republic	
Applicable Time Windows*	Day Start Time End Time	
- pproved line versions	💠 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:

ransaction Recovery Equals				
ecovery Request Before				
ptions Transaction Recovery ID	User	Recovery Date	♦ Status	
★ 1 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 🔘			Activa	ate Windows

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 EN			
Partially receipted	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

eneral	Recipients						
ptions	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
ø	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
•	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
•	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
0	autopos3@0001.enactor	Acknowledged	71	71		07/06/2022 07:33:16	07/06/2022 07:33:16 Activate Windows
r	autonos4@0001 enactor	Acknowledged	5	5		07/06/2022 07:32:50	Go 107/96(2023s97633250vate W

? 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:

saction Recovery History			? 11
ack C			
e viewing Transaction Recovery ID: '746e5a07-becf-4322-a	071-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 07:32:33 Ctivate Windows
00010201000012202281542526	RetailTransaction	Received	07/06/2022 07:31/50 to Settings to activate Wi

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 Transaction Archive Search Results ?								? II ×				
Tran	ilts for search criteria: insaction ID: 00010101000012204190415399 Transaction Voided : No ning Mode : No											
		Location	Terminal	Transaction	Originated By	Originating Device ID	Completed By	Completing Device ID	Created On	Completed On≎	Last Updated	Total
æ	Ō	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	Page	1 of 1 🕨	16	c							Activate	Windows
🗲 Ba	ck C	Resubmit Filter	red Transactions									ngs to activate 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'.

cument ID				Document	Type Contains	nsactionRecoveryAcknowledgement	
urce	Starts With	•		Source ID	Starts With	,	
ntent Type	Starts With	•		Status	Equals -	•	
	Starts With	•			Equais • -	· · · · · · · · · · · · · · · · · · ·	
rt Date		· · · · · · · · · · · · · · · · · · ·		End Date	•		
eue Name	Estate Man	ager Transaction Processin					
Apply Filter	rs 🌖 Reset Filters 🍀						
	Document ID	Source	Source ID	Content Type	Document Type	Date Received	Status
) 🕮 !	14716	pdpServer@0001.enactor		XML	transactionRecoveryAcknowledgement	05/10/2022, 12:31	Processed
) 🗇 !	14714	pdpServer@0001.enactor		XML	transactionRecoveryAcknowledgement	05/10/2022, 12:31	Processed
	14717	pdpServer@0001.enactor		XML	transactionRecoveryAcknowledgement	05/10/2022, 12:31	Processed
) 🗇 🔋		pdpServer@0001.enactor		XML	transactionRecoveryAcknowledgement	05/10/2022, 12:31	Processed
	14715				transactionRecoveryAcknowledgement	05/10/2022, 12:30	Processed
	14715	pos6@0001.enactor		XML	ulansaction Recovery Acknowledgement	03/10/2022, 12.30	Processed

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.