R0040a CSS Switch Synchronisation to ERDA



Version: 0.5

Date: 28 July 2022

Classification: OPEN

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DOCUMENT CONTROL

Document History

Version	Author(s)	Reason for Issue	Date
0.1	Daniel Tadecicco	First Draft	20/10/2021
0.2	Daniel Tadecicco	Internal Feedback	28/10/2021
0.3	Daniel Tadecicco	SMG Feedback	16/11/2021
0.4	Daniel Tadecicco	MHHS BPWG Feedback	15/03/2022
0.5	Daniel Tadecicco	MHHS BPRWG 27/07/2022 Feedback, it is a MHHS Requirement to retain the Pending in the Registration Service (ERDA). However, there is no requirement to retain the Cancelled Message Updated REC change to propose the removal of the Cancel	28/07/2022

Document File Reference

MHHS\Projects\Release 8.3 (Stage 0)\REC Changes

Distribution

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SMG	
RECCO	

Review of Document

Name	Role	Date
Anna Davis	Test Analyst	25/10/2021
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1 EXECUTIVE SUMMARY

Currently MPRS (MPAS/SMRS/ERDA) is informed of an Initial Registration or Switch Request at the Registration Life Cycle Status of “Pending”. Due to the choreography of different systems involved in switching, this can result in sequence and timing issues in MPRS.

This change seeks to remove MPRS from the Objection/Withdrawal Process, so that every Switch going into Settlement is Final and any Choreography issues are removed.

2 WHAT

1 CSS Informs MPRS of a Switch at Pending using the existing RegistrationPendingSynchronisation message.

2 registrationPendingSynchronisation message continues for ERDA

3 registrationCancelledSynchronisation messages removed for ERDA

4 registrationSecuredInactiveSynchronisation at Gate Closure Removed. MPRS can implicitly mark the old registration as SecuredInactive

3 WHY

3.1 Sequencing

3.1.1 Suppliers using “Instant Objections”

1 Switch into CSS

2 Old Supplier Objects on receipt (within Seconds)

3 CSS sends Pending and Cancel Messages to MPRS within Seconds.

   i. Messages are sent from CSS in Parallel, not Sequentially

4 Cancelled Message arrives at MPRS before Pending

5 Cancel is Rejected

6 Pending Accepted

7 Updates from Old Supplier are rejected as MPRS thinks the Switch Request is still Pending

8 Manual Correction required to resolve.

3.1.2 Explicit SecuredInactive

CSS sends the SecuredActive and SecuredInactive messages at Gate closure. These are delivered to MPRS in parallel. This results in SecuredInactive Messages being processed before SecuredActive messages. In some scenarios this can result in Error messages being sent from MPRS.

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The SecuredInactive message is unnecessary. If the New Registration has become Secured then implicitly, the Old Registration must therefore be inactive. Removing this message would half the volume of messages at Gate closure, reducing the processing burden on MPRS, Adapters and CSS.

The SecuredInactive De-registration message must remain.

3.2 Choreography

Note: this CP can no longer resolve this issue as the Pending will be retained.

MPRS and CSS process in parallel. This can result in MPRS informing Suppliers of a New Switch after the CSS has already processed the Objection.

1 Same Day Objection.

2 Supplier Submits Switch

3 Old Supplier Objects the same day

4 New Supplier Notified of Objection from CSS

5 CSS sends Pending and Cancel to MPRS

6 MPRS processes Pending Produces D0217 & D0260

7 MPRS Processes Cancel and Cancels Registration

8 New Supplier Receives D0217 & D0260 for a Registration which has already been objected to.

9 Supplier Logic required to ignore a D0217 or MPRS would need to hold the D0217 until the SecuredActive message is received as this would be the point of absolute certainty that the Switch is going ahead.

3.3 Data Quality

In live operation MPRS is receiving high volumes of junk cancelled registrations which is polluting the MPRS registration data. The proposed design would only add Secured Registrations to the MPRS registration history.

3.4 Change of responsibility for MPAS

MPAS is no longer the master for Switching Data. There is no Business or Technical requirement for MPRS to be involved in a switch before it is Secured. MPRS Objection/Annulment processing, adds unnecessary complexity to MPRS and provides no benefits to Distribution Businesses or downstream Settlement.

3.5 MHSS

MHHS new agent appointment process is more complex, requiring the Agent to Accept the appointment. Current Business Processes do not account for the registration being cancelled. If all Switches in MPRS are final, it will not add additional unnecessary complexity to the new change of Agent Process

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4 HOW

4.1 Queueing of RegistrationPendingSynchronisation message and D0205 from the Pending Supplier

MPRS will continue to trigger the D0217 & D0260 on acceptance of a Pending. However, the D0209 and supplierArrangedAppoinements (C0200) to CSS will not be triggered until SecuredActive.

MPRS will not reject Subsequent Pending requests where the switch has been Cancelled and re-attempted. Instead MPRS will queue Pending Requests and D0205s. MPRS will then apply the changes at securedActive and lapse all other pending changes. This reflects the MHHS design but implemented early using existing D flows.

D0205s from the Pending Supplier will be validated, but updates will not be applied until SecuredActive.

Please see “MPRS Flows DRAFT FINAL v2.7 R0040 Changes” which illustrates the changes to the timing of flows out of MPRS.

4.2 Removal of RegistrationCancelledSynchronisation message

CSS will no longer send the RegistrationCancelledSynchronisation message to ERDA

4.3 Removal of RegistrationSecuredInactiveSynchronisation Message at Gate Closure

CSS will no longer send a RegistrationSecuredInactiveSynchronisation message at Gate Closure. MPRS will implicitly update the Old Registration Status on acceptance of the SecuredActive message.

The De-Registration RegistrationSecuredInactiveSynchronisation Message will remain.

5 IMPACT

5.1 Suppliers

Suppliers will continue to receive the D0217/D0260 at Pending. However, this is not a confirmation that your Supply is going ahead in ERDA (MPAS). CSS Messages must be used to provide this function.

The D0209 will be triggered later at SecuredActive once the Switch is irreversible.

D0205s for Pending Suppliers which are accepted by MPRS will not have updates applied until the Registration is SecuredActive.

MPRS Processing will be changed to process Gate Closure flows at 18:00 GMT (and every hour after that to capture late deliveries). The D0209s and C0200s should therefore be issued at around 20:00 GMT.

5.2 CSS

CSS will no longer receive SupplierArrangedAppointments (C0200) on acceptance of the Pending. These will now be generated at securedActive. The C0200 will be

sent once and will include either the D0205 Agents sent by the Pending Supplier or the Defaulted Agents if no D0205 is received.

MPRS will deliver C0200 updates to CSS at around 20:00 GMT

Removal of the Switch securedInactive message will significantly reduce Gate Closure volumes

5.3 LDSO

LDSOs will be required to enable the MPRS Sub-Batch to process all CSS messages and the D0205. The Sub-Batch must run after Gate Closure to ensure timely delivery of D0209s and C0200s. Outbound message delivery must be enabled and C0200s and D0209s must be transferred to the Gateways on or around Sub-Batch Completion.

6 WHEN

Implementation June 2023 (MPRS R8.3)

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END OF REPORT

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