Final changes to the ISO 20222 messages for Payment System Operators settling net in RTGS for November 2025 – 18 December 2024

Payment system operators that settle in RTGS on a net basis are moving to ISO 20022 messages from TS3 go-live (April 2025). The Bank has introduced a **Change Management Framework** and process to ensure that all RTGS and CHAPS messages continue to meet industry needs and remain ISO 20022 compliant. The first of these changes for applicable messages are due in November 2025, and the change management process will take place on an annual basis thereafter.

Following engagement with payment system operators settling net in RTGS, this document contains the updated set of schema and technical guidance changes proposed for TS3 go-live and November 2025 specific to payment system operators settling net in RTGS, and any associated changes for their settlement participants. Changes that impact participants, but are not specific to retail settlement arrangements, have also been published on the Bank's website.

Summary of change requests

In 2024, the Bank published a set of proposed changes for payment system operators settling net in RTGS and associated changes to relevant RTGS schemas for their settlement participants.

Since the final publication of agreed international changes by CBPR+ and HVPS+ in October 2024, and changes to the go-live date for TS3, we have reviewed the landscape for change in 2025 for the Bank of England, CHAPS Direct Participants, other RTGS account holders, and payment system operators, and prioritised the changes accordingly.

November 2025 Release Schema changes

There will be no schema changes for specific payment system operators settling net in RTGS schemas. Additionally, none of the changes for participant schemas that

would have been associated with the Payment System Operators settling net in RTGS schemas will be going ahead either.

TS3 technical guidance documentation changes

Therefore, the only changes for payment system operators settling net in RTGS and their participants relate to TS3 technical guidance ISO documentation. Technical guidance ISO documentation changes will be published for TS3. This will be in advance of wider technical guidance ISO documentation for November 2025 release. TS3 technical guidance ISO documentation changes are clearly marked in the following tables where applicable. In all cases TS3 technical guidance ISO documentation amendments will be carried forward into the November 2025 release documentation.

November 2025 technical guidance documentation changes

There are no November 2025 technical guidance ISO documentation changes envisaged for payment system operators settling net in RTGS messages, nor for the associated changes for payment system operators settling net in RTGS participant schemas. Any technical guidance changes that have been marked in strikethrough from the change list are related to schema changes that have been deprioritised from the November 2025 release.

For comparison purposes, these changes have been set out in the same format that was published earlier in 2024.

Message Definition	Message Name	Used by
pacs.029.001.01	Multilateral Settlement Request	Payment system operators
pacs.002.001.12	Multilateral Settlement Response	Payment system operators
admi.004.001.02	Open Close Notification	Payment system operators [sent when the net settlement window opens and closes]

Message Definition	Message Name	Used by
camt.011.001.07 *(upgrading to camt.011.001.08)*	Cap Change Request	Pre-funded payment system operators [not currently in use]
camt.025.001.05	Cap Change Request Receipt	Pre-funded payment system operators [not currently in use]
camt.054.001.08	Liquidity pre-advice and advice	Payment system participants
camt.053.001.08	Statement	Payment system participants
head.001.001.02	Business Application Header	All messages

Note that camt.011.001 and camt.025.001 are not currently used by the net settlement payment system operators and there is no requirement to use them from November 2025.

Change requests in detail

Changes outlined in this document refer to messages that relate to net settlement and will impact payment system operators sending and receiving these messages as well as respective payment system participants. It is your responsibility to understand what messages you use, and any secondary impacts that these changes may have on your operations, e.g., aligning schemas as necessary or making sure you can provide information in the right format to those that do interface directly.

Where an impacted message type is not specifically listed, this may be because the proposed change impacts multiple messages or is relevant to technical documentation. You should consult your message sets and documentation to establish impact where necessary.

The following tables have been split into two sections:

1. **DNS schema changes for release in November 2025** – includes changes to the machine readable xsd files in MyStandards. These files form part of the Swift validation libraries that the Bank and payment system operators use to validate retail net settlement messages. None of these changes are going ahead.
2. **DNS technical guidance changes for release in November 2025** – includes changes to the implementation guidance document that accompanies the xsd files. This document provides essential information required to generate valid messages that is not included in the xsd files. Only TS3 technical guidance changes are going ahead.

Changes not being taken forward are either marked with light grey in the table and strike-through in the text where the full change has been deprioritised; or strike-through in the text only where only part of the overall change is going forward.
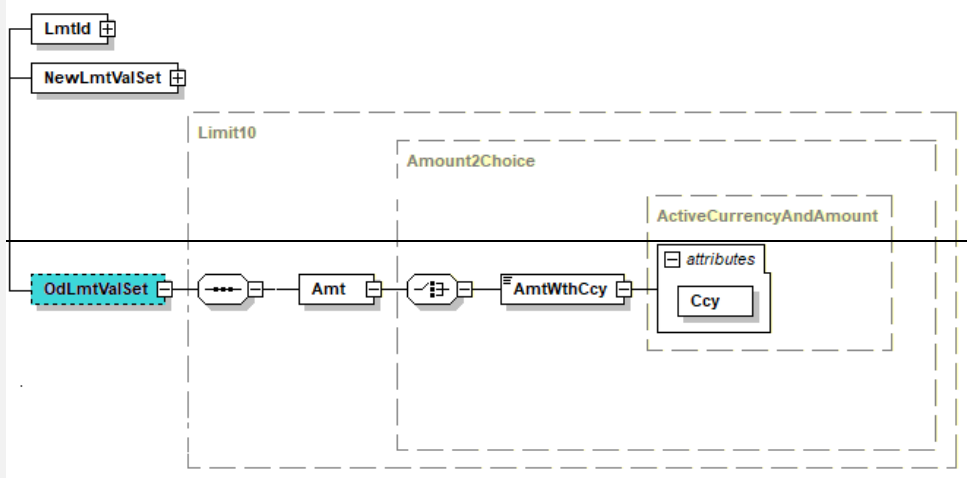
Where applicable, TS3 technical guidance documentation changes have been marked with: **[Change to be included in TS3 documentation]**

Since publication of the proposed changes earlier in 2024, feedback was received from payments system operators settling net in RTGS and their participants on the changes. Any feedback received has been incorporated into the following tables. Where applicable, the updated information will be taken forward with the change or when the changes are considered again for implementation for following cycles.

All proposed changes have been assigned an impact categorisation – definitions for this are in **Annex A**.

Bank of England

1. DNS/retail settlement schema changes for release in November 2025

CR #	What will be changed	High level description	Detailed description	Reason	Impact Level
1	All DNS messages containing ISODateTime and ISOTime	Change the datatype of ISODateTime and ISOTime	Change 1 HVPS+ also proposing this change CR 0007 CBPR+ also proposing this change CR002296 Modify the pattern in the datatype of all ISODateTime and ISOTime elements to allow UTC offset of +14:00 From pattern: .*(\+|-)((0[0-9])|(1[0-3])):[0-5][0-9] To pattern: .*(\+|-)((0[0-9])|(1[0-4])):[0-5][0-9] Change 2 HVPS+ also proposing this change HVPS+ CR 0007 Modify the pattern in the datatype of ISODateTime to ensure only years with four digits are valid. See also #15 for related technical guidance change(s).	Change 1 Enables +14:00 time zone in ISODateTime and ISOTime fields. Change 2 Prevents years with more than 4 digits in ISODateTime fields.	2
2	pacs.002 rejection reason codes	Datatype change: replace fixed value code list with external code list	Change 1 Remove the fixed value code list DNSRejectionErrorIdentification1Code from the pacs.002 [/Document/FIToFIPmtStsRpt/TxInfAndSts/StsRsnInf/Rsn/Cd] leaving the full external code list ExternalStatusReason1Code Codes will not change from TS3 go live April 2025. See also #10 for related technical guidance change(s).	Change 1 Allows future flexibility in the rejection reason codes sent in the pacs.002.	2
3	pacs.002	Populate Original Message Identification within Original Group Information block	Change 1 Populate /Document/FIToFIPmtStsRpt/TxInfAndSts/OrgnlGrpInf/OrgnlMsgId with the Message Identification of the pacs.029 that the pacs.002 is responding to. No impact here unless payment system operator chooses to process the Original Message Identification which was previously populated with "NOTPROVIDED". See also #11 for related technical guidance change(s).	Change 1 Facilitates reconciliation between the pacs.029 and the pacs.002.	1

CR #	What will be changed	High level description	Detailed description	Reason	Impact Level
4	camt.011	Message version upgrade	Change 1 Upgrade the version of the camt.011 modify limit message from version 7 to version 8. Version 8 contains a new message component Old Limit Value Set. RTGS will populate Old Limit Value Set [Document/ModfyLmt/LmtDtls/OdLmtValSet/Amt|AmtWthCcy/@Ccy]] with the amount of the old funding limit on a participant prefunding account prior to a new limit being applied. The difference in amount between Old Limit Value Set and New Value Limit Set is the difference between old and new funding amounts on a participant prefunding account. For reference: See diagram below, old Limit Value set in the camt.011 version 8. Old Limit Value Set has the same structure as New Value Limit Set. Impact only if the payment system operator chooses to receive the camt.011. For reference: following a participant's request to increase or decrease the amount of funding on their prefunding account, the camt.011 is sent by RTGS to the payment system operator. The camt.011 requests authorisation from the payment system operator to update the funds reservation balance for that participant's prefunding account. Change 2	Change 1 Facilitates the calculation of the difference between the previous amount of money of the limit and the new amount of money of the limit for the purpose of reconciliation by the DNS Scheme operator. Change 2 Remove a field whose functionality has been replaced with new message component Old Value Limit Set	2+

CR #	What will be changed	High level description	Detailed description	Reason	Impact Level
			~~Remove field /Document/ModfyLmt/LmtDtls/LmtId/Cur/AcctId/Othr/SchmeNm/Prtry from the camt.011. This field was included on a temporary basis to be populated by RTGS with the difference between old and new funding amounts on a participants' prefunding account. Change 1 above removes the need to include this field from November 2025.~~ ~~See also #14 for related technical guidance change(s).~~		
~~5~~	~~pacs.029/ camt.054/ camt.053~~	~~Addition of optional reference field~~	~~May impact scheme participants~~ ~~Change 1~~ ~~Include an optional reference field [/Document/MulSttlmReq/SttlmReq/MvmntRcrd/Ref] in the pacs.029. This field is intended to be optionally populated by the payment system operator and carries a reference to the underlying settlement participant for each movement. This field will be returned in the camt.054 pre-advice and advice and camt.053 statement sent to payment system participants.~~ ~~Impact only where the payment system operator chooses to populate the new reference field.~~ ~~Change 2 – also included in the CHAPS/RTGS Set B changes~~ ~~Populate /Document/BkToCstmrDbtCdtNtfctn/Ntfctn/Ntry/AddtlNtryInf in the camt.054 pre-advice and advice messages with the reference provided in Change 1 above.~~ ~~Change 3 – also included in the CHAPS/RTGS Set B changes~~ ~~Populate /Document/BkToCstmrStmt/Stmt/Ntry/AddtlNtryInf in the camt.053 statement message with the reference provided in Change 1 above.~~ ~~See also #8 for technical guidance change(s).~~	~~Change 1~~ ~~Facilitates the reconciliation of the pacs.029 underlying settlement participants with the subsequent camt.054 liquidity reports and camt.053 statements generated for scheme participants with RTGS accounts that provide arrangements for other scheme participants that don't have access to an RTGS account to settle monies. Some RTGS account holders will provide access to more than one other scheme participant leading to multiple reports and statements generated that need to be reconciled.~~ ~~Change 2~~ ~~Allows the reference provided in Change 1 to be passed on to the receiver of the~~	~~2+~~

CR #	What will be changed	High level description	Detailed description	Reason	Impact Level
				~~camt.054 pre-advice and advice messages.~~ ~~Change 3~~ ~~Allows the reference provided in Change 1 to be passed on to the receiver of the camt.053 statement message.~~	

2. DNS/net settlement technical guidance changes for release in November 2025

CR#	What will be changed	High level description	Detailed description	Reason	Impact Level
6	pacs.029 example formatting	Correct an error in a pacs.029 example	**Change 1 [Change to be included in TS3 documentation]** Example contains leading zeros which are not allowed in a pacs.029 Update example pacs.029 From <InstrId>0000000000319585 To <InstrId>319585 This should not have an impact from November 2025 as it will be live from TS3 (April 2025). Payment system operators should not be including leading zeros at TS3.	**Change 1** Correction	0
7	pacs.029 technical guidance	Information about the use of the BIC	**Change 1 [Change to be included in TS3 documentation]** Add the following information to the technical guidance. 'From' BIC validation: • RTGS checks the 'From' BIC in a pacs.029 settlement instruction to make sure the sender of the message is the right payment system operator for the payment system. • This check has been made more robust (and consistent with CHAPS validation) to add the XXX branch code if it is not supplied by the operator. However, it is recommended to always submit the branch code. Note, this means RTGS will therefore accept a net settlement instruction with a BIC that is 11 char (with correct XXX branch code) or 8 char (we will append the XXX branch code ourselves). 'To' BIC validation: • No validation is performed on the 'To' BIC in a DNS clearing – this should always be submitted to the Bank of England BIC (if we receive it, then no further validation is performed). Review and update examples as appropriate to reflect the above use of the BIC. This should not have an impact from November 2025 as it will be live from TS3 (April 2025).	**Change 1** Additional information reflecting the position from TS3 go-live.	0
8	pacs.029 technical guidance	Information about the addition of an optional reference field	May impact scheme participants Change 1 Add a paragraph to the technical guidance describing the use of the new optional reference field [/Document/MulSttlmReq/SttlmReq/MvmntRcrd/Ref] in the pacs.029. This field can optionally be populated by the payment system operator and is intended to carry	Change 1 Facilitates the reconciliation of the pacs.029 underlying settlement participant with	2+

CR#	What will be changed	High level description	Detailed description	Reason	Impact Level
			~~a reference to the underlying settlement participant for a movement. This reference will be returned in camt.054 pre-advices and advices and the camt.053 statement~~ ~~Impact only where payment system operator chooses to populate the new reference field.~~ ~~See also #5 for related schema change(s).~~	~~the camt.054 and camt.053.~~	
9	pacs.002 example formatting	Correct errors in pacs.002 example	**Change 1 [Change to be included in TS3 documentation]** Example contains incorrect value if it is, as expected, based on the inbound pacs.029 example. Update example pacs.002 From <OrgnlInstrId>ABC123 To <OrgnlInstrId>319585 **Change 2 [Change to be included in TS3 documentation]** Example contains leading zeros which are not allowed in a pacs.002 Update example pacs.002 From <StsId>0000000001234567 To <StsId>1234567 **Change 3 [Change to be included in TS3 documentation]** Update the pacs.002 formatting example to reflect that the <StsId> Status Identification and <MsgId> Message Identification are both 16 character hashed values and that they are not the same. Changes 1, 2 and 3 should not have an impact from November 2025 as they will be live from TS3 (April 2025).	**Change 1** Correction **Change 2** Correction **Change 3** Correction	0
10	pacs.002 reason codes	Update the list of possible pacs.002 reason codes	**Change 1 [Change to be included in TS3 documentation]** Update the list of possible reason codes in the technical guidance that may be populated by RTGS in [/Document/FIToFIPmtStsRpt/TxInfAndSts/StsRsnInf/Rsn/Cd] as shown below. <table><tr><th>Rejection reason(s)</th><th>pacs.002 reason code</th></tr><tr><td>DUPLICATE TRANSACTION</td><td>AM05</td></tr><tr><td>INVALID ACCOUNT CURRENCY</td><td>AC09</td></tr><tr><td>INVALID SCHEME CURRENCY</td><td></td></tr></table>	**Change 1** Update codes to reflect TS3 implementation.	2-

CR#	What will be changed	High level description	Detailed description	Reason	Impact Level
			INVALID NUMBER OF MOVEMENTS — AM18 ~~INVALID NUMBER OF MOVEMENTS~~ — ~~AM18~~ BALANCE NOT NET TO ZERO — AM02 INVALID BIC — RC05 SCHEME_NOT_ACTIVE — RC08 INVALID SCHEME MEMBERSHIP — AC01 INVALID DATE — DT01 Debit: DEBTOR ACCOUNT NOT ACTIVE Credit: CREDITOR ACCOUNT NOT ACTIVE — AC06 SCHEME SETTLEMENT NOT OPEN — DT01 INSTRUCTION CANCELLED — ED05 INVALID ACCOUNT — AC01 Change 1 should not have an impact from November 2025 as it will be live from TS3 (April 2025).		
11	pacs.002 technical guidance	Information about when/when not to expect a pacs.002 ~~Information about the population of Original Group Information block~~	**Change 1 [Change to be included in TS3 documentation]** Add the following to the technical guidance document. • A pacs.002 will not be sent in response to an invalid scheme code [/Document/MulSttlmReq/GrpHdr/SttlmInf/ClrSys/Prtry] in a pacs.029 • A pacs.002 reject with reason code RC05 will be sent if an operator sends a valid scheme code for a scheme they do not manage. The BIC received in a pacs.029 must match the BIC of the "scheme" otherwise INVALID BIC RC05 will be returned. ~~Change 2~~ ~~Add information to the technical guidance document to explain that Original Message Identification within the Original Group Information block in the pacs.002 will be populated with the Message Identification of the pacs.029 that the pacs.002 is responding to.~~ ~~See also #3 for related pacs.002 schema change.~~	**Change 1** Additional information reflecting the TS3 position. ~~Change 2~~ ~~Facilitates reconciliation between the pacs.029 and the pacs.002. reflecting the TS3 position.~~	1

CR#	What will be changed	High level description	Detailed description	Reason	Impact Level
12	camt.054 technical guidance	Information about when camt.054 liquidity pre-advices, advices will be sent to participants Information about transfer type code that can be included in camt.054 liquidity pre-advices, advices and cancellations	**May impact scheme participants** **Change 1 [Change to be included in TS3 documentation]** Add information to the technical guidance document to explain that pre-advices are sent to participants when the Bank receives the settlement request from the payment system operator, including for forward timed settlement. Advices are sent when the settlement is complete. Where payment system operators send messages for immediate settlement, the pre-advice and advice will be virtually simultaneous (barring any other issues delaying settlement). TABLE1 **Change 2 [Change to be included in TS3 documentation]** Add information to the technical guidance document to explain that the below transfer type codes are used to identify transaction types within the camt.054 […/Ntfctn/Ntry/BkTxCd/Prtry/Cd] TABLE2	**Change 1** Additional information – changes are effective at TS3 and already advised **Change 2** Additional information– changes are effective at TS3 and already advised	0

TABLE1:

Scheme	Forward timed settlement
FPS	No (immediate)
Bacs	Yes
ICS	Yes
Visa	Yes
Mastercard	Yes
LINK	Yes
PEXA	No (immediate)

TABLE2:

Transfer Type Code	Description
BACS	BACS

CR#	What will be changed	High level description	Detailed description		Reason	Impact Level
			BILL	Billing [not pre advices]		
			BTWA	BA to BA Transfer within account		
			CALT	ALT Crest Settlement Liquidity Transfer		
			CCRT	CREST Contingency Repo Transfer		
			CCST	CREST Contingency Settlement Transfer		
			CHCH	CHAPS Member to CHAPS Member		
			CHIC	CHIC		
			CHRT	CHAPS Member to RT Participant		
			CRCS	Crest Cycle Settlement		
			CRLT	Crest Liquidity Transfer		
			CSLT	Crest Settlement Liquidity Transfer		
			DDCR	Crest Recycling draw down		
			EUR	Euro Liquidity		
			EURC	Euro Liquidity Contingency Transfer		
			FSTP	FPS		
			INT	Interest		
			LBAL	Liquidity Balance Re-initialisation		
			LINK	LINK		
			MSTC	MSTC		
			NBND	NOTES-BOND		

CR#	What will be changed	High level description	Detailed description		Reason	Impact Level
			NNRF	NOTES-NRF		
			OVD	Overdraft Cover		
			PEXA	PEXA		
			RTCH	RT Participant to CHAPS Member		
			SBAL	Settlement Balance Re-initialisation		
			SCP	Single Collateral Pool		
			SLTP	Party to Party		
			TAB	Target Balance Penalty Charges		
			TAT	Account Transfer		
			TPRE	Prefunding Liquidity Transfer		
			TSLT	Settlement Liquidity Transfer		
			TUCR	Crest Recycling Top-Up		
			VISA	VISA		
13	technical guidance	Include information about network size limitations on InterAct	**Change 1 [Change to be included in TS3 documentation]** Add a section to the technical guidance describing Swift InterAct payload and file size limits. In addition to Swift InterAct payload and file size limits description, include that a pacs.029 can support a maximum of 275~~194~~ movements. The most movements we have ever seen in RT1 is 56 and the most movements RT1 can handle is 99 so we have made a significant improvement on that in RT2. In RT2 BERTI can handle ~~500~~ 390 movements and can therefore be used should a pacs.029 ever exceed the 275~~194~~ limit.		**Change 1** Additional information – reflecting changes already made at TS3.	0

CR#	What will be changed	High level description	Detailed description	Reason	Impact Level
~~14~~	~~camt.011 technical guidance~~	~~Message version upgrade~~	~~Change 1~~ ~~Add a section to the technical guidance describing the use of the upgraded version of the camt.011 modify limit message from version 7 to version 8. Version 8 contains a new structure Old Value Limit Set.~~ ~~RTGS will populate [Document/ModfyLmt/LmtDtls/OdLmtValSet/Amt|AmtWthCcy/@Ccy]] with the amount of the old funding limit on a participants prefunding account prior to the new limit being applied. When Old Limit Value Set is subtracted from New Value Limit Set, the result is the difference between old and new funding amounts on a participants' prefunding account.~~ ~~Impact only if payment system operator chooses to receive the camt.011.~~ ~~For reference: following a participant's request to increase or decrease the amount of funding on their prefunding account, the camt.011 is sent by RTGS to the payment system operator. The camt.011 requests authorisation from the payment system operator to update the funds reservation balance for that participant's prefunding account.~~ ~~Change 2~~ ~~Remove field /Document/ModfyLmt/LmtDtls/LmtId/Cur/AcctId/Othr/SchmeNm/Prtry from the camt.011 section and associated guidance on the use of this field. This field was included on a temporary basis to be populated with the difference between old and new funding amounts on a participants' prefunding account.~~ ~~See also #4 for related camt.011 schema changes(s).~~	~~Change 1~~ ~~Facilitates the calculation of the difference between the previous amount of money of the limit and the new amount of money of the limit for the purpose of reconciliation.~~ ~~Change 2~~ ~~Remove a field whose functionality has been replaced with new message component Old Value Limit Set.~~	~~2+~~
15	ISODateTime usage guidance	Add information about digit restriction applied to years	**Change 1 [Change to be included in TS3 documentation]** Update section 2.2 Date and Time of the technical guidance to explain that only years with four digits will be accepted in ISODateTime fields. **Change 2 [Change to be included in TS3 documentation]** Review and update where necessary all ISODateTime fields in the xml examples to ensure that they accurately reflect the definitions given in the technical guidance. ~~See also #1 for schema changes.~~	**Change 1** Years with more than 4 digits in ISODateTime fields will be rejected. **Change 2** Corrections	2-

Annex A: Impact level categorisation of the change requests

All change requests contain an evaluation of their impact on interfaces and applications expressed as a number in the range [0 - 3] with or without a plus "+" or minus "-" sign as in the following table.

Index of impact

Level 0	This is a minor change that does not impact the structure of the message, but it may have an impact on some automated applications, for example, the scope of the message is updated.
Level 1	This change relates to the use of the message syntax but does not affect the message structure or the message validation, for example, a definition or a usage rule is changed.
Level 1 +	An existing message is removed from the service.
Level 2 -	The change has a small effect on the message syntax and the message validation, for example, simple data types are changed.
Level 2 +	The message syntax or the message validation or both are significantly impacted, for example, an element or a message component or a message building block is added or deleted, or a validation rule is changed or added.
Level 3 -	A new message is added to the service.

Impact on interfaces

All changes can have a direct impact on interfaces. This also applies to level 0 and level 1 changes, which may require an update to input screens or help screens or both.

Impact on applications

Level 0 changes should have no to minimum impact on applications.

Higher level changes will normally have an impact on applications, although the impact for applications that send the message may be different from the impact for applications that receive the message.