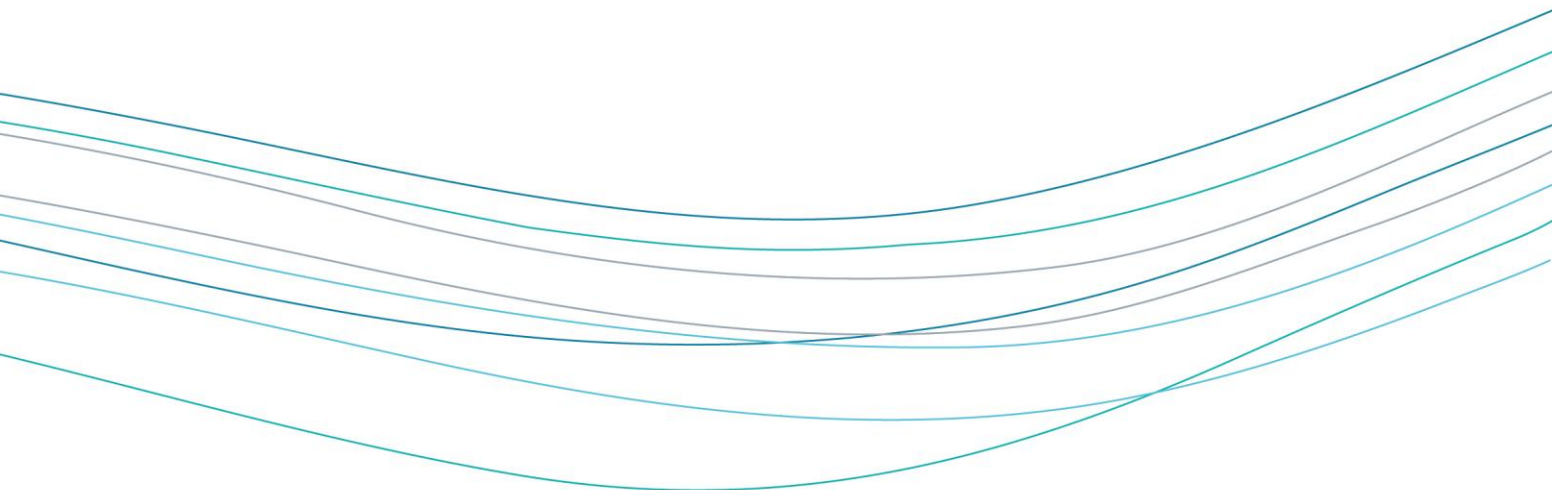


CMOS 12.0 Release Note

Version 1.23 - Final

24 May 2022



About this document

This paper sets out the scope and deployment arrangements for the CMOS release 12.0. The release is made up of approved Ofwat CPW and NCCs to enhance CMOS and the market codes together with a set of defect fixes.

As with other CMOS releases, Trading Parties will be expected to test the new functionality via the MPS2 environment. This Release will be deployed on 14th of April 2022 on MPS2 and 13th May 2022 in Production. Any observations relating to the technical implementation itself (i.e. potential defects) should be notified to the Service Desk.

MOSL fully recognises the need to provide clarity and forward visibility to the market regarding the scope of fixes, given the impact to local systems. This document will be updated at appropriate intervals as we move through development, testing and ultimate deployment of the release to Production. Updates will also be reflected in the regular publication of the Observations and Workaround logs and open to discussion at the [Operations and Release Working Group \(ORWG\)](#) and the weekly CMOS Operations calls during the test phase of the release.

Version History

Version	Update	Date
1.0	Initial CMOS Release 12.0 Note with the scope of the changes.	20 December 2021
1.1	Corrected typo in section 2	23 December 2021
1.2	Initial ALMs added.	05 January 2022
1.3	ALM updates to 926, 1191, 1222, 1235, 1246, 1258, 1266, 1271, 1276 and 1281.	06 January 2022
1.4	ALM updates to 1206, 1274 and 1281. Added ALMs 1283 and 1285	10 January 2022
1.5	NCC027 – updated.	12 January 2022
1.6	XSD Change section updated.	14 January 2022
1.7	CWP123 description updated	20 January 2022
1.8	ALM 1283 updated.	24 January 2022
1.9	ALM 1287 added.	31 January 2022
1.10	ALM 1283 updated.	07 February 2022
1.11	ALM 1282 added.	14 February 2022
1.12	Updated date for deployment in MPS2. Updated section in CPW123 with regards to transactions T113.W and TCORR113.W. Updated section 4 with new changes to the XSDs.	18 February 2022
1.13	CPW123 section updated and ALM 1282 removed.	21 February 2022
1.14	Updated the MOSLCMOSTypesV12.0.0.1.xsd that is in the zip file “XSD for CMOS Release 12.0.zip” on our website (CMOS – Next Release)	22 February 2022
1.15	Added ALMs 1259, 1292 and 1293. Updated ALM 1271.	17 March 2022
1.16	Updated a section in CPW123 with regards to the field being left blank instead of a space when a null value is required.	19 March 2022
1.17	Updated ALM 1263 and 1271.	28 March 2022
1.18	Updated CPW123 change information, XSDs and Error Codes. Added ALMs 1301 and 1302. Updated ALMs 1276 and 1287	4 April 2022
1.19	Updated ALMs 1191, 1266, 1273, 1287 and 1301.	12 April 2022
1.20	Updated ALMs 1206, 1248, 1263, 1281, 1292 and 1301.	25 April 2022
1.21	Deployment dates updated.	29 April 2022
1.22	Updated Error Codes section. Updated 1189, 1191 and 1287. Added 1304.	03 May 2022
1.23 - Final	Added 1309. Updated 1171, 1265, 1285, 1293 and 1304. Removed 1246, 1252, 1258 and 1265. Scope of release updated, XSD Changes and Error Codes.	24 May 2022

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01 Timeline for Release 12.0

Date	Activity	Version
20 December 2021	Initial CMOS Release 12.0 Note published, including confirmed CPW and NCCs	1.0
14 April 2022	Deployment to MPS2	
29 April 2022	Patch drop MPS2	
6 May 2022 (+ 1-week contingency)	Targeted completion of Trading Party testing	
20 May 2022	Deployment to Production	
27 May 2022	Deployment to MPS	

02 Scope of Release 12.0

The following changes are confirmed for Release 12.0 and will come into effect on 20 May 2022:

ID	CPW/NCC	Title	Market Code Impact	CMOS Impact
1	CPW123	Improved codes for 'remote read type'	Yes	Yes
2	NCC026	Collapse functionality to be added in CMOS	No	Yes
3	NCC027	Validation of CMOS username	No	Yes

1) **CPW123** – This change seeks to rename and adjust the remote read type meter codes to ensure they accurately represent the meters in the market. There will be impact on CSD0202, CSD0301 and CSD0302.

The change will update the valid read types in Data Item D3038 – “Remote Read Type” to:

TOUCH
OUTREADER
AMR
SMARTAMI
WI-FI
DUMB
OTHER

The current values for D3038 – “Remote Read Type” will be mapped to:

1WRAD -> AMR
2WRAD -> AMR
GPRS -> SMARTAMI
OTHER -> OUTREADER
*Null -> DUMB

*These are for the situation were the D3037 – “Remote Read Flag” was set to 0 (the meter could not be remotely read) and therefore D3038 – “Remote Read Type” had a null value or, simply if D3037 – “Remote Read Flag” is set to 0 then D3038 – “Remote Read Type” will automatically be updated too “DUMB”.

It’s important to highlight that the mapping to the new values will be done automatically in CMOS but Trading Parties will have to do it in their own systems, as no notifications will be sent because this will be a direct change to the CMOS Database.

Data Item D3038 – “Remote Read Type” will be a mandatory item in transaction T104.W. And because of that, the “DUMB” code should be used for meters that do not have a remote read capability.

Data Item D3037 – “Remote Read Flag” will be removed.

Data Item D3039 – “Outreader ID” will be renamed to “Remote Serial Number”

MDS_METERS report will be updated to remove Data Item D3037 – “Remote Read Flag” and to rename Data Item D3039 to “Remote Serial Number”.

The transactions and notifications affected by this change are T104.W, T104.M, T113.W, T113.M, TCORR113.W and TCORR113.M which will have changes to their XSDs to accommodate the new valid set of remote read types, the removal of Data Item D3037 – “Remote Read Flag” and the renaming of Data Item D3039.

The XSD for transaction T104.W will make data item D3038 – “Remote Read Type” mandatory.

Transactions T113.W and TCORR113.W will allow null value for data items D3030 – “Meter Outreader GISX” and D3031 – “Meter Outreader GISY”. For example, if in the CMOS Portal the content of these fields is removed then the database will be updated to null. If the Wholesaler wants to null these fields via HVI (B2B) then the wholesaler will be required to leave the field blank, e.g.,:

```
<MeterOutreaderGISX></MeterOutreaderGISX>
```

or

```
<MeterOutreaderGISX/>
```

Either of these styles provided as part of a T113.W / TCORR113.W will null the existing data item.

If upon submission of a HVI (B2B) transaction, the user does not wish to update these values then they should be left out of the transaction entirely (as they are currently).

Please note this change required a change to the XSDs, which were now updated (see section 4). This change is required in situations where the Remote Read Type is incorrectly marked as being capable of being remotely read and the Wholesaler would change it to “DUMB”, therefore D3030 and D3031 would have to be nulled.

A number of current validation rules referencing Data Item D3037 – “Remote Read Flag” will be either removed or modified. Further details will be provided once these are defined.

Also, XSDs were amended due to ALM1301, where data items D3017 (GISX) and D3018 (GISY) in transactions T113.W, T113.M, TCORR113.W and TCORR113.M allow an empty value. That’s is for the case it refers to a non-market meter so that the coordinates are not required and it is inline how transaction T104.W works.

2) [NCC026](#) – This change will enable users to collapse a tab view without the need to open a different tab as well as keeping as many tabs open as they wish.

3) **NCC027** – This change will remove the ability to create CMOS usernames using the “@” character. The values allowed for username creation will be:

- [a-z]
- [A-Z]
- [0-9]
- ._- (dot, underscore and dash)

03 Scope of Release 12.0 Defect Fixes

The target set of fixes to be delivered in parallel with the Changes include defect fixes that will be updated in this document until the final Release Note. The table below shows the defects planned to be included in Release 12.0 up to this date with a summary as per the Observation Log and some additional detail as they are made available. Please note that if the defect has a status of “confirmed” it means it will be included in Release 12.0 otherwise it is still in analysis/development phase or need a data fix. The purpose of this table is to provide an earlier view as possible to the Trading Parties about the defects to be fixed, but as it is a live document, more defect fixes can be added or removed, and the final list will be in the final Release Note.

ALM	Status	Root Cause/Description	Resolution
926	Data Correction	Initial read uploaded incorrectly from initial data mitigation. MOSL contacted the TPs affected and once the response is received, the data fix will be applied.	Data Correction to be applied.
1171	Data Correction	Initial Meter Read is missing from sub meters. MOSL contacted the TPs affected and once the response is received, the data fix will be applied.	Data Correction to be applied.
1189	Confirmed	Volumetric Adjustment for MPW SC showing twice on the portal (cosmetic issue)	Fixed applied, so EFD information from TCORR139.W displays correctly on the portal end.
1191	Confirmed	WSL successfully switched off Service Component, but it is still displaying incorrectly on the portal screen.	Screens amended so that the EFD shows most recent data where the Service Component became effective
1206	Confirmed	WSL unable to update a tariff to legacy within the normal tariff window.	Updated rules to allow legacy states to be created during a standard tariff window.

ALM	Status	Root Cause/Description	Resolution
1222	Confirmed	Transfer read request still showing in RTL open transaction, which should have been cancelled when final read was added to the assigned meter before RSD. Specific Case	Data Correction to be applied.
1232	Data Correction	Data error C8 is appearing incorrectly when submitting a TCORR126.W to terminate an active DPID.	Data Correction to be applied.
1235	Data Correction	T181.W sent erroneously to disassociate a meter followed by a T115.W to deregister the SPID. WSL now unable to add final read to the meter due to DEREG. Meters still currently showing as active in the system and appearing in the LUM reports.	Data Correction to be applied.
1248	Confirmed	CMOS is still reflecting information after a successfully submitted T113.W was sent to remove information	XSD changes have been made which allow a blank value to be submitted to null data items
1259	Confirmed	When TCORR177.W is used to change the Deregistration Date to an earlier date then the time periods between old Deregistration Date and the new change the date of the transfer that's taken place. The incoming retailer becomes an owner earlier. Specific case	Fixed added so modified supply point dates do not affect transfer periods.
1263	Confirmed	User unable to create ad hoc reports using participant management.	Rules updated to allow Retailer and Wholesaler to pull info from participant management data, under their trading party type.
1265	Confirmed	D1 report failed to produce SWDF for a SPID.	Data Correction to be applied.
1266	Confirmed	WSL receiving VR.155 when transaction T127.W and TCORR127.W are submitted due to invalid meter/DPID association.	Validations rules updated, so WSL will receive correct error messages.

ALM	Status	Root Cause/Description	Resolution
1271	Confirmed	T109.M for T105.R being sent down the incorrect channel in MPS2 environment only.	Process for updating T109.M BTD steps for GUI channel to DEQ has been fixed.
1273	Confirmed	Missing SPIDs in D1 report.	Schedule ID to be added as prefix to allow the reuse of file names without issues.
1274	Confirmed	T128.M reflecting incorrect EFD.	Process fixed so that the Effective Date is pulled from the T128.W first.
1276	Data Correction	Open Transactions page incorrectly portraying transfer read required for incorrect meter. This is due to corrections sent to update the meters EFD after the RSD. Specific case.	Correction to be applied for specific case.
1281	Confirmed	RTL receiving incorrect error message after sending T112.R. Specific Case.	Data fix applied to case and fix verified for both transactions.
1283	Confirmed	Under User-defined Reports (Jaspersoft) when filtering the transactions under BTD domain, the filter list is not showing all transactions available to select.	BTD domains changed to join BTD and BTS views via SPID
1285	Confirmed	Service component history is not showing data correctly. Instead of displaying the first active state, it is showing different dates.	Same fix as ALM 1191
1287	Confirmed	RTL unable to remove transfer read that was part of an erroneous transfer.	VR.064-1 has been fixed
1292	Confirmed	MDS files reflecting incorrect EFD. Specific case.	Fixed report to show correct records.
1293	Confirmed	Related to ALM 1259. Specific Case.	Data fix to be applied

ALM	Status	Root Cause/Description	Resolution
1301	Confirmed	Report show maximum VFD from all related (meter network) records	Fixed report to show correct records.
1302	Data Correction	Error code RP being incorrectly received. Stating that max limit is 12 ACSII characters but field entered only has 3 characters in it and does not exceed limit.	Data fix to be applied
1304	Confirmed	Supply Point date for Gap sites being allowed to be set back to far back in the past but there is an SLA limit based on CSD0101.	VR.149-1 implemented and added to T107.W validation set.
1309	Confirmed	Fix Comitted for Duplicate Volume Adjustments had caused VADJ Table to not show data	Correct Code committed and table is now viewable

04 XSD Changes

The change for this Release (CPW123) has an impact on CMOS interface XSD files. These files are available on the MOSL website ([CMOS > CMOS Releases > New Releases](#)) for trading parties to view. Updated XSDs as of 4 April 2022 are available on the website as well as the spreadsheet detailing the changes:

Data element	Change	Name	Type	Affected Transactions (*) – mandatory field	Description
D3037	CPW123	Remote Read Flag	boolean	T104.W (*), T104.M (*), T113.W, T113.M, TCORR113.W, TCORR113.M	Removed Data Item.
D3038	CPW123	Remote Read Type	ASCIIString(12)	T104.W (*), T104.M (*), T113.W, T113.M, TCORR113.W, TCORR113.M	Changed the set of values: OUTREADER, TOUCH, AMR, SMARTAMI, WI-FI, DUMB, OTHER. Changed from optional to mandatory in T104.W and T104.M
D3039	CPW123	Outreader ID / Remote Serial Number	ASCIIString(32)	T104.W, T104.M, T113.W, T113.M,	Renamed Data Item.

Data element	Change	Name	Type	Affected Transactions (*) – mandatory field	Description
				TCORR113.W, TCORR113.M	
D3030	ALM 1248	MeterOutreaderGIS X	decimal(6.1) or ASCIIString(0)	T104.W, T104.M, T113.W, T113.M, TCORR113.W, TCORR113.M	Allowed empty value
D3031	ALM 1248	MeterOutreaderGIS Y	decimal(6.1) or ASCIIString(0)	T104.W, T104.M, T113.W, T113.M, TCORR113.W, TCORR113.M	Allowed empty value
D3017	ALM 1301	GISX	decimal(6.1) or ASCIIString(0)	T113.W, T113.M, TCORR113.W, TCORR113.M	Allowed empty value
D3018	ALM 1301	GISY	decimal(6.1) or ASCIIString(0)	T113.W, T113.M, TCORR113.W, TCORR113.M	Allowed empty value

05 Error Codes

The validation rules and error codes have now been published for this release (04.04.2022). The file is available on MOSL’s website on [CMOS > CMOS – Current Release](#) “Error Codes – 12.0.1.0”.

06 Release 12.0 Dates

The CMOS Release 12.0 dates for all environments are highlighted in section 01 and the dates for future releases are available on MOSL’s website in [CMOS > CMOS Current Release > Release Schedules 2021-2022](#)

07 Additional Information

The detailed information regarding the content of live change proposals can be found on MOSL’s website, on [Market Codes > Change > Change Register](#) and the [Market Codes > Change > Non-Code Change Requests](#).