### A.1.a.  INDICATIVE USER REQUIREMENTS

**UR 1.** Data Items.

**UR 1.1.** New Data Item. D3026_MeterNetworkAssociation. This item should take the value of True or False.

**UR 1.2.** New Data Item. D2035_MainSPID. This item should be the same as the D2001_SPID, but should relate to the SPID for a Main Meter in a meter network.

**UR 1.3.** New Data Item. D2036_SubSPID. This item should be the same as the D2001_SPID, but should relate to the SPID for a Sub-Meter in a meter network.

**UR 1.4.** New Data Item. D3027_MainMeterID. This item should be the same as the D3001_MeterID, but should relate to the Main Meter in a meter network. (NOTE: The data item for a Sub-Meter already exists; the D3006_Sub-meter ID)

**UR 2.** New Transaction T036.0 (Submit Meter Network Data). To be submitted by Scottish Water when establishing or updating a Meter Network Association (i.e. an association between a Main Meter and a Sub-Meter)

**UR 2.1.** Content. The T036.0 should contain the following data items;

- **D2035_MainSPID** Required.
- **D3027_MainMeterID** Required.
- **D2036_Sub-SPID** Optional. This should be provided, unless the Sub-Meter is domestic.
- **D3006_Sub-meter ID** Required.
- **D3026_MeterNetwork Association** Required. This should be set to True if the association is to be established and to False if the association is to be terminated.
- **D4006_EffectiveFromDate** Required. This should provide the date from which the change in the association should take effect.

**UR 2.2.** Validation. The T036.0 should be validated as follows and if successfully validated, a T009.1 OK should be sent to SW:

**UR 2.2.1.** Sender. The sender must be SW. If this is not the case, the transaction should be rejected and a T9 should be sent via the use of the T9 Helper, with error code [tbd].

**UR 2.2.2.** Content. The transaction must have all required fields completed and all data provided should be in the correct format. If this is not the case, the transaction should be rejected by the HVI Schema.

**UR 2.2.3.** Main SPID and Sub SPID.

**UR 2.2.3.1.** If the Sub-SPID is provided, the Main SPID must be different to the Sub-SPID. If this is not the case, the transaction should be rejected and a T9 sent (via the use of the T9 helper) with error code [tbd].

**UR 2.2.3.2.** The Main SPID and the Sub-SPID if provided, must exist in the CS If this is not the case, the transaction should be rejected and a T9 sent (via the T9 Helper) with error code [tbd], if the Main SPID has failed, or error code [tbd] if the Sub SPID has failed.

**UR 2.2.3.3.** The Main SPID and the Sub-SPID if provided, must be water SPIDs. If this is not the case, the transaction should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd], if the Main SPID has failed, or error code [tbd] if the Sub SPID has failed.

**UR 2.2.3.4.** The Main SPID and the Sub-SPID if provided, must be New, Partial, Tradable, or Temporarily Disconnected. If this is not the case, the transaction should be...
rejected and a T9 sent (via the T9 Helper) with error code [tbd], if the Main SPID has failed, or error code [tbd] if the Sub SPID has failed.

**UR 2.2.4.** Main Meter.

**UR 2.2.4.1.** The meter must exist in the CS. If this is not the case, the transaction should be rejected and a T9 sent (via the T9 Helper) with error code [tbd].

**UR 2.2.4.2.** The meter must be associated with the Main SPID provided. If this is not the case, the transaction should be rejected and a T9 sent (via the T9 Helper) with error code [tbd].

**UR 2.2.4.3.** The meter must not be a Pseudo-Meter. If this is the case, the transaction should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd].

**UR 2.2.4.4.** The meter must be of Meter Type SWWater or Private Water. If this is not the case, the transaction should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd].

**UR 2.2.4.5.** The meter must not have been swapped out. If it has, the transaction should be rejected and a T9 sent (via the T9 Helper) with error code [tbd].

**UR 2.2.4.6.** The meter must have an Effective From Date of less than 9999-12-31 and must have at least one meter reading. If this is not the case, the transaction should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd].

**UR 2.2.5.** Sub-Meter

**UR 2.2.5.1.** The meter must exist in the CS. If this is not the case, the transaction should be rejected and a T9 sent (via the T9 Helper) with error code [tbd].

**UR 2.2.5.2.** If the meter is not domestic, a Sub-SPID must be provided and the meter must be associated with that Sub-SPID. If the meter is domestic, there should be no Sub-SPID. If this is not the case, the transaction should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd].

**UR 2.2.5.3.** The meter must not be a Pseudo-Meter. If this is the case, the transaction should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd].

**UR 2.2.5.4.** The meter must be of Meter Type SWWater or Private Water. If this is not the case, the transaction should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd].

**UR 2.2.5.5.** The meter must not have been swapped out. If it has, the transaction should be rejected and a T9 sent (via the T9 Helper) with error code [tbd].

**UR 2.2.5.6.** The meter must have an Effective From Date of less than 9999-12-31 and must have at least one meter reading. If this is not the case, the transaction should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd].

**UR 2.2.6.** Meter Network Association.

**UR 2.2.6.1.** If the Meter Network Association is set to True, the submitted Sub-Meter must not exist as a Sub-Meter in any other Meter Network Association, or if it does, that meter network must have an Effective To Date strictly prior to the submitted Effective From Date. If this is not the case, the transaction should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd]. If this test is satisfied, along with the other validation above, the Meter Network Association should then be created in the CS, with an Effective From Date as submitted.

**UR 2.2.6.2.** If the Meter Network Association is set to False, the Association must be extant in the CS and the submitted Effective From Date must be greater than the
Effective From Date of the existing Association. If this is not the case, the transaction should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd]. If this test is satisfied, along with the other validation above, the Meter Network Association should be terminated in the CS, with an Effective To Date of the submitted EFD – 1.

**UR 2.2.7.** EFD. The Effective From Date must not be in the future. If this is the case, the transaction should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd].

**UR 3.** New Transaction T036.1 (Notify Meter Network Data). This will contain the same fields as the T036.0 and will be sent to relevant parties by the CMA on successful validation of a T036.0. Relevant recipients will be determined by application of the following Notification Helper logic to the T036.0, where the LP should be taken to be the LP for the Main SPID:

**UR 3.1.** Wholesaler to LP – Y
**UR 3.2.** LP to Wholesaler – N
**UR 3.3.** Reflexive – N
**UR 3.4.** Associated SS LP – Y
**UR 3.5.** Associated WS LP – N
**UR 3.6.** Incoming LP – Y

**UR 4.** POLR. The POLR script should be amended such that the issue of the T018.0 is removed and replaced with the T036.1 which should be issued to relevant Providers of Last Resort, for any SPID that is being transferred that is either a Main SPID or a Sub-SPID.

**UR 5.** SPID Transfers. When the T008.1 (Notify RSD) is sent, the issue of a T018.0 should be discontinued and instead, a T036.1 should be issued to the Incoming LP.

**UR 6.** Changes to the T005.0. Additional validation should be added, such that if an F read is submitted for a meter which has an extant Meter Network Association, the T005.0 should be rejected and a T9 sent via the use of the T9 Helper, with error code [tbd].

**UR 7.** Changes to the T005.2 and T030.1. If a read is submitted for a Sub-Meter and the LP for the associated Main Meter differs from that for the Sub-Meter, then the relevant notification should be copied to the LP for the Main SPID/Meter and to the LP for any associated Sewerage SPID.

**UR 8.** Changes to the XML Schema. The Schema should be modified to accommodate the new T036.0 and T036.1 transactions.

**UR 9.** Changes to the LVI. A new LVI submission page for the T036.0 is required.

**UR 10.** Changes to the MDS. A new report should be added to the MDS; X35Meter Networks. The Report should have the same structure as other MDS Reports and should contain the following data, for any meter network which is effective on the day the MDS is run:

- D2035_Main SPID
- D3027_MainMeterID
- D2036_Sub-SPID
- D3006_Sub-meter ID
- D4006_EFD (the Effective From Date of the Association).