

Detailed User Requirements for Error Code Expansion

Background

User error when submitting Transactions to the Central Systems has been far higher than initially anticipated. The Metering Working group identified that the returning of error codes by the Central Systems with generic text associated with them as an issue. All participants sought enhancements to the Central Systems validation process so that more specific text would accompany error codes when a transaction was submitted with no or incorrect data i.e. the text would explain the reason for the transaction failing system validation.

MCCP – Key Aspects of the Proposed Change

The MCCP noted that the Central Systems will be changed so that an error code accompanied by more specific error code text, explaining the reason for the failure of a transaction, is returned to participants. Amongst other things this text will indicate whether a required data item is missing from a transaction or whether a data item was incorrectly submitted in a transaction. The system will be changed to introduce new error codes and associated text along with existing error code text being amended or replaced to be more specific. This will have the following impact:

- The HVI
 1. New error codes will be introduced.
 - 41 New Error codes will be introduced, 11 of these have already been developed as “spare” error codes reserved for future use.
- The LVI
 2. New error codes will be introduced (mirroring the HVI) with associated text that provides a specific reason for a transaction failing validation.
 3. Current text associated with an existing error code being amended or replaced to be more specific.

User RequirementsUser Requirement Table

UR001	New error codes and error code text, as per the "Error Code" Table in the below section, should be added to the XML Schema and the relevant page in the LVI.
UR002	Error codes should be associated with the appropriate validation step as detailed in the "Central System Validation Process" Table in the below section.

Error Code Table – Track Changes

Code	Description	History
OK	OK will be received when the message has been processed and all the appropriate validations have taken place successfully. The sender will not receive an error after receiving an OK	
AA	Sender must be a valid Licensed Provider SPID Service Type (Tag) does not match a Licensed Provider's licence	
AB	Required Data Item is Null SPID must be supplied in the transaction	
AC	Data is not member of a valid set SPID does not exist in the Central Systems	
XA	Licensed Provider rejects registration for a new Supply Point	
AD	Licensed Provider confirms invalid new Supply Point Meter read submitted as re-read. An exact duplicate Ignore Read does not exist for the Meter Read	
AE	Change not allowed (Trading SPID must be updated with an Update Transaction) SPID status must be Tradeable.	
AF	OBSOLETE - WS data overrides SS data SPID status must be New.	
AG	SS SPID data cannot overwrite WS SPID data	
AH	SPID status is TDISC or Reconnected Read Type not Initial Meter Read for new Meter	
AI	Confirmed Connection Date not must be in the past (upon receipt)	
AJ	Data required to complete new Supply Point SPID process has not been received	
AK	Transfer Registration Rejected: Registration Start Date outside permitted window	
AL	Licensed Provider nominated by Scottish Water has rejected registration for a new Supply Point SPID	
AM	Invalid Cancellation: Outside Cancellation Window	
AN	Transfer Read not received post RSD Sender must be a Licensed Provider or the meter is a Pseudo meter	
AO	Taps/Troughs must be Farm or Croft	
AP	OBSOLETE - Transfer Registration Rejected: SPID unmeasured Meter is PDISC or has been swapped and is Old meter	
AQ	Transfer Registration Rejected: Registration to other Applicant already in progress.	
AR	Transfer Registration Rejected: Applicant already registered to SPID or transfer to Applicant already pending.	
AS	Cancellation request not applicable to this Licensed Provider	
AT	Meter Read Rejected: Read type inappropriate	
AU	SPID Disconnection date not must be today or in the past	
AV	SPID status must be Partial or Tradeable Read Type not Final Meter Read for Disconnected SPID	
AW	Sender must be a Licensed Provider with an Active Registration No Final Meter Read received for Disconnected SPID	
AX	Transfer Registration Rejected: SPID is Disconnected	
AY	Old meter must be active Meter Change Rejected: Transaction incomplete	
AZ	Cannot add meter - is SS SPID A meter can only be added to a WS SPID	
BA	Cannot make SPID Unmeasurable: Has meter	
BB	RESERVED FOR FUTURE USE Data rejected: Licensed Provider not registered for this SPID	
BC	Meter Read Rejected: Meter not associated to SPID (mismatch)	
BD	DO NOT REUSE Deleted in Version 1.4; replaced by BH, BL, BN, BV and BZ.	Del 1.4
BE	Meter Read Rejected: outside meter capacity limit	Upd 1.4
BF	A read for this date already exists	
BG	Meter Read Rejected: Licensed Provider not registered to SPID	

BH	Meter Read Rejected: daily usage too high	Add 1.4
BI	New meter read date must be the same or after the old meter read date	
BL	Meter Read Rejected: daily usage too low	Add 1.4
BN	Meter Read Rejected: small negative meter advance; would create a negative charge	Add 1.4
BV	Meter Read Rejected: negative meter advance larger than 3m3 per day; would create a negative charge	Add 1.4
BZ	Meter Read Rejected: zero meter advance	Add 1.4
BG	Meter Read Rejected: Licensed Provider not registered to SPID	
DA	The Participant does not have the required rights to make this request DO NOT REUSE	
DB	Invalid Operation WS SPID and/or SS SPID does not exist in the Central Systems	
DC	Supply point is not of the correct type for this request Transaction must be for a WS SPID	
DD	Service category already exists for this connection	
DE	Old and New Meters incompatible for meter swap. Old Meter is not a domestic meter	
DF	Effective From date predates previous change	
DG	Meter not associated to SPID	
DH	Cannot complete connection of sewerage service before the related water service	
DI	Transaction not permitted SPID has passed the switching limit	Upd 1.5
DJ	Data Value not permitted Transaction must contain: Sender, Recipient, Timestamp, SPID.	Upd 1.5
DK	Effective From Date cannot be in the future	
DL	Reserved for future use Sender must be wholesaler.	
DM	Discharge Point already exists	
DN	Discharge Point is discontinued	
DO	SPID and DPID are not associated	
DP	Discharge Point not associated with the water meter	
DQ	Discharge Point already discontinued	
DR	Discharge Point ID does not exist in the Central Systems	
DS	TE Allowance plus Return to Sewerage Allowance cannot exceed 100%	
DT	Cannot associate a Discharge Point with a water meter that doesn't exist in the Central Systems .	
DU	Duplicate Data Item DO NOT REUSE	
DV	Invalid Customer Name	
DW	Customer Name is not present	
DX	SPID does not exist or it is a Sewerage SPID that is paired with a Water SPID	
DY	Meter Is a Pseudo Meter	
DZ	Either SPID or Registration Start date is not valid.	
EA	String does not conform to GIS Specification	
EB	Comments field must be populated. The comment must be between 1 and 255 characters long	
EC	No GIS data provided	
ED	Reserved For Future Use Transaction must be for a SS SPID	
EE	CS disagrees with the Rollover Indicator provided	
EF	Unable to determine the rollover status. Please supply the Rollover Indicator	
EG	There are no Licensed Providers available for Gap Site allocation	
EH	All other values with the exception of the Rollover Indicator matched a previous read for the same date	
EI	The Rollover Indicator may not be present on an O or an I read	
EJ	SPID status must be connected.	
EK	Message does not contain Org SenderID or Org Recipient ID	

EL	Message must contain SPID and Effective From Date	
EM	SPID status is Disconnected, it must be connected or TDISC	
EN	SPID status is TDISC	
EO	SPID status is reconnected	
EP	SPID does not have an active registration	
EQ	SPID status must be new or partial	
ER	The unmeasurable Service Element on the SPID already has an Effective To date set	
ES	TA cannot be set, Associated Water SPID is disconnected	
ET	SPID status is disconnected or SPID has Transitional Indicator set to true	
EU	SPID status is Unmeasurable	
EV	SPID status must be partial or connected	
EW	SPID status is disconnected or has been rejected.	
EX	Licensed Provider Org ID does not match Sender Org ID	
EY	Meter does not exist in the Central Systems	
EZ	Meter is not a Pseudo Meter	
FA	Meter already exists in the Central Systems	
FB	Meter ID must be included in the transaction	
FC	Meter Make must be included in the transaction	
FD	Meter Serial Number must be included in the transaction	
FE	SPID status is Umeasurable or it is a special case (i.e. TA set and has one service element and that SE is unmeasurable)	
FF	Meter Read Frequency must be N	
FG	Chargeable Meter Size must be 20mm	
FH	Meter is attached to a SPID and a SPID must be provided	
FI	Meter does not exist in the Central Systems or is a Pseudo meter.	
FJ	SPID status must be Tradeable or TDISC	
FK	Meter is a non-market meter and is not linked to a SPID	
FL	Meter does not exist in the Central Systems	
FM	Both old and new meter must be included in the transaction	
FN	Old and/or New Meter does not exist in the Central Systems	
FO	Meter either has previous reading or old meter read type is not E and/or New Meter Read type is not O	
FP	Meter is discontinued or has already been swapped	
FQ	Old and/or New meter is a Pseudo meter	
FR	Old and New meters must contain same chargeable size and RTS.	
FS	Old and New meters incompatible for meter swap. New meter is in meter network	
FT	New meter must be active or pending	
FU	Sender does not exist in Central Systems	
FV	Meter Read date is earlier than the Effective To date of Unmeasurable Service Elements associated with the Supply Point	
FW	Read is a Duplicate Initial Read or Duplicate Final Read	
FX	Meter read must be on a date after the last meter reading	
FY	Initial Meter Reading Rejected: Meter Readings already exist	
FZ	Transaction must contain SPID and SPID Sender Org Id or Recipient Org ID.	
GA	SPID status must be Partial	
GD	The WS SPID Status must be new or partial, the SS SPID Status must be partial or tradeable	

	XA	Licensed Provider rejects registration for a new SPID	
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Central System Validation Process Table

Process and Transactions	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.1.1.8 T003.0, T007.2	V1	Validate that a SPID was supplied in the message.	Send a T009.0 Notification to the Sender	AC	AB
	V2	Validate that the Supply Point was loaded successfully.	Send a T009.0 Notification to the Sender	AC	AC
	V3	Validate that the Supply Point 's Status is New.	Send a T009.0 Notification to the Sender	DB	AF
	V4	Validate the Licensed Provider .	T009.0 returned to Sender	DA	AA
	V5	Validate the Supply Point was loaded from the database successfully.	Exception is thrown: 'The Supply Point could not be retrieved #MID'. This exception is logged and no message returned to the Sender.		

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.1.2.8 T003.1	V1	Validate the format and content of the message (i.e. that has a valid SPID and Registration Start	Send a T009.0 Notification to Sender.	AC	DZ

T004.1 T008.0 T008.1 T019.0 T020.0 T021.1 T023.1 T028.1 T029.0		Date)			
	V3	Validate the Participant is a Licensed Provider .	Return a T009.0 to Sender	DA	AA
	V4	Validate the Participant was loaded successfully.	Return a T009.0 to Sender	AA	
	V5	Validate that the Supply Point referenced in the Message passed in has a status of 'Tradable'.	Return a T009.0 to Sender. If Status is 'Disconnected' use error code AX otherwise use DB.	AX/DB	AX/FZ
	V6	Validate that the Supply Point in the Message is either a Water or a Sewerage Supply Point .	Return a T009.0 Notification to Sender.	AP	AA
	V7	Validate that the Supply Point referenced in the Message has no future registrations.	Return a T009.0 Notification to Sender with AR Error code if the future registration is with the requesting Licensed Provider or an AQ Error Code if the future registration is with a different Licensed Provider.	AR/AQ	AR/AQ
	V8	Validate that the Registration Start date is after the Go Live Date and that it is between 7 and 19 business days (inclusive) from Now .	Return a T009.0 Notification to the Sender.	AK	AK

	V9	Check how many times the Supply Point has been switched over, prior to a year before Now , to ensure it has not passed the switching limit.	Return a T009.0 Notification to Sender.	AC	DI
	V10	Validate that the Supply Point is not already registered to the Incoming LP.	Return a T009.0 Notification to Sender.	AR	AK

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.1.3.8. T010.0 T010.1 T011.0 T011.1	V1	Validate the format and content of the message (i.e. that has a Sender, Recipient, Timestamp and Supply Point)	Return a T009.0 Notification to the Sender.	AC	DJ
	V2	Validate that the Sender Org ID of the Message matches either the Licensed Provider of the loaded Supply Point, or the Organisation ID of the Active Registration .	Return a T009.0 Notification to the Sender	AS	AS
	V3	Validate that the Message contains a valid Cancellation Code: S/N/F (Incoming Licensed Provider), D/C/F (Outgoing Licensed Provider).	Send a T009.0 Notification to the Sender	DA	AS
	V4	Validate that the Message contains a valid Cancellation Comment: The comment must be between 1 and 255 characters long, inclusive.	Send a T009.0 Notification to the Sender	EB	EB
	V5	Validate Now is inside the time frame allowed (the time frame allowed is the Registration's	Send a T009.0 Notification to the Sender	AM	AM

		<p>Application Date plus the Cancellation Time Frame set in the config file including only business days).</p> <p>Validate that Now is within the permitted window of business days (i.e. no later than the Registration Application Date plus the Cancellation Time Frame).</p> <p>Note: The Cancellation Time Frame is held in the application's config file.</p>			
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Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.2.1.8 T001.0 T002.0 T002.1	V1	Validate that the Sender of the Message is the Wholesaler.	Send a T009.1 Notification to the Sender	DA	DL
	V2	Validate that the Organisation ID in the Message is for an existing Licensed Provider with a currently Valid License.	Send a T009.1 Notification to the Sender.	AA	AA
	V3	Validate the Gap Site SPID was assigned a License Provider	Send a T009.1 Notification to the Sender.	EG	EG

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	New Error Code
4.2.2.7	V1	Validate the Supply Point is a Water Supply Point .	Send a T009.0 Notification to the Sender.	DC	DC
T009.0 T006.0	V2	Validate the Supply Point 's Status is not Tradeable.	Send a T009.0 Notification to the Sender	AE	GA
	V3	Validate that the Supply Point 's Status is Partial.	Send a T009.0 Notification to the Sender	DB	GA
	V4	Validate that the Supply Point is loaded successfully from the Database.	Send a T009.0 Notification to the Sender.	AC	AC
	V5	Validate the Licensed Provider is valid for this Supply Point .	Send a T009.0 Notification to the Sender	DA	AA

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	New Error Code
4.2.3.8. T009.0 T006.1	V1	Validate the Supply Point does have an Associated Supply Point that is not Disconnected AND the Associated Supply Point 's Update Status is Both or SpidDataOnly:	Copy the details of the Associated Supply Point to the Supply Point. Send a T009.0 Notification to the Sender	AG	AG
	V2	Validate the Supply Point is a Sewerage Supply Point .	Send a T009.0 Notification to the Sender	DC	ED
	V3	Validate the Supply Point 's Status is NOT Tradable.	Send a T009.0 Notification to the Sender	AE	GA
	V4	Validate the Supply Point 's Status is Partial	Send a T009.0 Notification to the Sender	DB	GA

	V5	Validate the Supply Point was loaded from the Database.	Send a T009.0 Notification to the Sender.	AC	AC
	V6	Validate the Licensed Provider is valid for this Supply Point .	Send a T009.0 Notification to the Sender	DA	AA
	V7	Validate the Supply Point's Creation date is before or earlier than Now , and it has no Last Modified date or the Last Modified Date is before or earlier than today:	Send a T009.0 Notification to the Sender	DF	DF

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.2.4.8 T009.0 T009.1 T009.2	V1	Validate the Supply Point 's Status is New.	Send a T009.0 Notification to the Sender	DB	AF
	V2	Validate that the Sender of the Message is a valid Licensed Provider .	Send a T009.0 Notification to the Sender	DA	AA
	V3	Validate that the Supply Point is loaded from the Database successfully.	Send a T009.0 Notification to the Sender	AC	AC
	V4	Validate that the message contains a SPID.	Send a T009.0 Notification to the Sender.	AB	AB

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
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4.2.5.8	V1	Validate that the Supply Point is loaded from the Database.	Send a T009.0 Notification to the Sender	AC	AC
T009.0 T012.0	V2	Validate that the Supply Point Status will allow an update to take place (i.e., the Status is not New, Partial or Disconnected).	Send a T009.0 Notification to the Sender.	DB	AE
	V3	Validate the Sender of the Message is valid Licensed Provider .	Send a T009.0 Notification to the Sender.	DA	AA
	V4	Validate that the Supply Point is successfully loaded from the Database.	Send a T009.0 Notification to the Sender	AC	AC
	V5	Validate the Supply Point does NOT an Associated Water Supply Point .	Send a T009.0 Notification to the Sender.	AG	AG
	V6	Validate the Supply Point 's Creation Date is before or the same as the supplied Effective From date AND the Supply Point does NOT have a Last Modified date or the Last Modified date is before or the same as the supplied Effective From date.	Send a T009.0 Notification to the Sender	DF	DF
	V7	Validate the Effective From date supplied in the Message is equal to Today's Date or earlier.	Send a T009.0 Notification to the Sender	DB	DK

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.2.6.8 T009.0 T012.1	V1	Validate that the Supply Point is NOT (New, Partially Connected, AND Disconnected).	Send a T009.0 Notification to the Sender.	DB	AE

V2	Validate that the Supply Point is successfully loaded from the Database.	Send a T009.0 Notification to the Sender	AC	AC
V3	Validate that both the Rateable Value Flag and the SPID Vacant Flag are NOT specified in the Message.	Send a T009.0 Notification to the Sender	AG	AG
V4	Validate that the Supply Point is connected (i.e. Status is not Disconnected).	Send a T009.0 Notification to the Sender.	DB	EJ
V5	Validate the Supply Point is successfully loaded from the Database.	Send a T009.0 Notification to the Sender.	AC	AB
V6	Validate that the Supply Point was successfully loaded from the Database.	Send a T009.0 Notification to the Sender	AC	AB
V7	Validate that if any Outside Taps, Troughs or Drinking bowls exist, then Farm or Croft is specified in the message.	Send a T009.0 Notification to the Sender	AO	AO
V8	Validate that neither the Message, nor the Supply Point , have Farm/Croft specified as NA.	Send a T009.0 Notification to the Sender.	AO	AO
V9	Validate that neither the Message, nor the Supply Point , have Farm/Croft specified as NA.	Send a T009.0 Notification to the Sender.	AO	AO
V10	Validate that Supply Point has no modifications pending (i.e. neither the Creation date nor the Last Modified date are in the future).	Send a T009.0 Notification to the Sender	DF	DF
V11	Validate that the Updates to be made are currently effective (i.e. the Effective From date in the Message is not in the future).	Send a T009.0 Notification to the Sender.	DB	DK

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	New Error Code
4.2.7.8 T009.1 T015.0 T015.1	V1	Validate that the Message Contains both a Sender Org ID and a Recipient Org ID.	Send a T009.1 Notification to the Sender	AC	EK
	V2	Validate that the Message Contains both a SPID and an Effective From date.	Send a T009.1 Notification to the Sender	AC	EL
	V3	Validate that the Supply Point has a status other than Disconnected.	Send a T009.1 Notification to the Sender	DB	EM
	V4	Validate that the Message is not also a Temporary Disconnection.	Send a T009.1 Notification to the Sender	DB	EN
	V5	Validate that the Message is not also a Reconnection.	Send a T009.1 Notification to the Sender	DB	EO
	V6	Validate that the Supply Point has an Active Registration .	Send a T009.1 Notification to the Sender	DB	EP
	V7	Validate that the Supply Point has a status other than new or partial.	Send a T009.1 Notification to the Sender	DB	EQ
	V8	Validate that the Sender of the Message is the Wholesaler.	Send a T009.1 Notification to the Sender	DA	DL
	V9	Ensure Disconnection Date passed in with the Message is not in the future.	Send a T009.1 Notification to the Sender	AU	AU
	V10	Validate that the Message's Effective From date is not prior to the Supply Point 's Creation and Connection Dates.	Send a T009.1 Notification to the Sender	DF	DF

	V11	Validate that the Effective From date is not in the future.	Send a T009.1 Notification to the Sender	DB	DK
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Process	Validation ID	DocValidation	ErrorAction	ErrorCode	New Error Code
4.2.8.8 T009.1 T016.0 T016.1	V1	Validate that the Message contains all the required fields.	Send a T009.1 Notification to the Sender	AC	FZ
	V2	Validate that the Sender of the Message is the Wholesaler.	Send a T009.0 Notification to the Sender	DA	DL
	V3	Validate that the Effective From date is less than or equal to the timestamp from when the message was generated	Send a T009.1 Notification to the Sender.	DK	DK
	V4	Validate the Already Measurable flag is NOT set to true.	Send a T009.1 Notification to the Sender.	DB	ER
	V5	Validate the Never Declared Unmeasurable flag is NOT set to true.	Send a T009.1 Notification to the Sender.	DB	
	V6	Validate that the Supply Point is not a Sewerage Supply Point with an Associated Water Supply Point	Send a T009.1 Notification to the Sender	AG	AG
	V7	Validate that the Supply Point 's Status is NOT Disconnected and the Supply point is not in TA	Send a T009.1 Notification to the Sender	DB	ET
	V8	Validate that the Supply Point is successfully loaded from the Database.	Send a T009.1 Notification to the Sender.	AC	AC

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.2.9.8 T009.1 T029.0 T029.1	V1	Validate the Sender of the Message is the Wholesaler.	Send a T009.0 Notification to the Sender.	DA	<u>DL</u>
	V2	Validate that where any Associated Water Supply Point exists with a Disconnected status, that the message does not have Transitional Arrangement specified.	Send a T009.0 Notification to Sender.	AG	<u>ES</u>
	V3	Validate that the Supply Point has no effective Unmeasurable Service Elements.	Send a T009.0 Notification to Sender.	DB	<u>EU</u>
	V5	Validate that the Message's Effective From Date is not prior to any previous changes: (i.e., is not prior to the Supply Point 's Creation Date, or LastModified Date (if specified)).	Send a T009.1 Notification to Sender.	DF	<u>DF</u>
	V6	Validate that the Supply Point 's Status is NOT Disconnected.	Send a T009.1 Notification to Sender.	DB	<u>EM</u>
	V7	Validate that the Supply Point is successfully loaded from the database.	Send a T009.1 Notification to Sender.	AC	<u>AC</u>
	V8	Validate that the Message's Effective From Date is not in the future.	Send a T009.1 Notification to Sender.	DB	<u>DK</u>

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.2.10.8 T009.1 T029.2	V1	Validate that the Sender of the Message is a valid Licensed Provider .	Send a T009.0 Notification to the Sender.	DA	AA
	V2	Validate that the Supply Point is a Water Supply Point , or is a Sewerage Supply Point with no Associated Water Supply Point :	Send a T009.0 Notification to Sender.	AG	AG
	V3	Validate that the Message's Effective From Date is not prior to any previous changes: (i.e., is not prior to the Supply Point 's Creation Date, or LastModified Date (if specified)).	Return a T009.0 Notification to Sender.	DF	DF
	V4	Validate that the Supply Point 's Status is not New or Disconnected.	Send a T009.0 Notification to Sender.	DB	EV
	V5	Validate that the Supply Point is successfully loaded from the database.	Send a T009.0 Notification to Sender.	AC	AC
	V6	Validate that the Message's Effective From Date is not in the future.	Send a T009.0 Notification to Sender.	DB	DK

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.2.11.8 T009.0 T032.0 T032.1	V1	Validate the Supply Point exists and belongs to the Sender.	Send a T009.0 Notification to the Sender	DX	DX

	V2	Validate the SPID provided is not for a paired Sewerage Supply Point .	Send a T009.0 Notification to the Sender	DX	DX
	V3	Validate the Customer Name provided in the Message is valid.	Send a T009.0 Notification to the Sender, include the validation errors int the Notification	DV	DV

Process	Validati on ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.3.1.8 T004.0 T004.1 T009.1	V1	Validate that the meter does not already exist in the system.	Log error message and halt process.	DU	FA
	V2	Validate that the GISX and GISY values were in the Message	Return a T009.0 Notification to Sender.	EC	EC
	V3	Validate that the Supply Point has been specified.	Return a T009.0 Notification to Sender.	AC	AC
	V4	Validate that the GISY value is valid	Return a T009.1 Notification to Sender.	EA	EA
	V5	Validate that the GISX value is valid	Return a T009.1 Notification to Sender.	EA	EA
	V6	Validate that the Water Supply Point is NOT Disconnected and NOT Rejected.	Return a T009.1 Notification to Sender.	DB	EW
	V7	Validate that the Supply Point has either no current Unmeasurable Service Elements or has been marked a specialcase.	Return a T009.1 Notification to Sender.	DB	EU

	V8	Validate that if the Supply Point exists it is a Water Supply Point .	Return T009.1 Notification to Sender.	AZ	AZ
	V9	Validate that the GISY value is valid	Return a T009.1 Notification to Sender.	EA	EA
	V10	Validate that the GISX value is valid	Return a T009.1 Notification to Sender.	EA	EA

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	New Error Code
4.3.2.8 T004.2 T009.0	V1	Validate the Active Registration 's Licensed Provider's Organisation ID matches the Sender Org Id in the Message then the Sender is valid.	Send a T009.0 Notification to the Sender	DA	EX
	V2	Validate the Supply Point 's Licensed Provider's Organisation Id matches the Sender Org Id in the Message then the Sender is valid.	Send a T009.0 Notification to the Sender	DA	EX
	V3	Validate the Supply Point was successfully loaded from the Database:	Send a T009.0 Notification to the Sender	AB	AB
	V4	Validate the SPID passed in with the Message exists in the Database.	Send a T009.0 Notification to the Sender	AB	AC
	V5	Validate the Meter Id in the Message is associated with a valid Meter in the Database.	Send a T009.0 Notification to the Sender.	AB	EY
	V6	Validate the Meter Is NOT Reassessed	Send a T009.0 Notification to the Sender	DI	EZ
	V7	Validate the Meter is a Physical Meter .	Send a T009.0 Notification to the Sender	AB	EY

	V8	Validate the Supply Point contains the loaded Meter .	Send a T009.0 Notification to the Sender	DG	DG
	V9	Validate the Supply Point's Status is NOT disconnected and the meter is active Now (i.e. its Effective From is before Now and it either has no Effective To date or it is after Now).	Send a T009.0 Notification to the Sender	DB	??

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	New Error Code
4.3.3.8 T004.1 T004.3 T009.1	V1	Validate the Meter does not already exist.	Send a T009.1 Notification to the Sender	DU	FA
	V2	Validate the Supply Point was loaded successfully from the Database.	Send a T009.1 Notification to the Sender	AC	AC
	V3	Validate the Free Descriptor in the Message was specified.	Send a T009.1 Notification to the Sender	AB	EB
	V4	Validate the Meter Id was specified in the Message.	Send a T009.1 Notification to the Sender	AB	FB
	V5	Validate the Meter Makes was specified in the Message.	Send a T009.0 Notification to the Sender	AB	FC
	V6	Validate the Manufacturer Meter Serial Number was specified in the Message.	Send a T009.1 Notification to the Sender	AB	FD
	V7	Validate the Water Supply Point 's Status does not equal Disconnected AND does not equal	Send a T009.1 Notification to the Sender.	DB	EW

		Rejected.			
	V8	Validate the number of Unmeasurable Water Service Elements calculated earlier equals zero or the Supply Point is a Special Case.	Send a T009.1 Notification to the Sender	DB	FE
	V9	Validate the Meter Read Frequency is N.	Send a T009.1 Notification to the Sender	DI	FF
	V10	Validate the Chargeable Meter Size defined in the Message is 20.	Send a T009.1 Notification to the Sender	DI	FG
	V11	Validate the Supply Point is a Water Supply Point .	Send a T009.1 Notification to the Sender	AZ	AZ

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.3.4.8 T004.0	V1	The meter is not orphaned , a valid Supply Point ID should be supplied.	T009.0 returned to Sender	AC	FH

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.3.5.8 T009.1 T013.0 T013.1	V1	Validate the Sender of the Message is the Wholesaler.	Send a T009.1 Notification to the Sender.	DA	DL
	V2	If the GISY value fails validation, send a T009.1 with the EA return code	Send a T009.1 Notification to the Sender.	EA	EA

V3	If the GISX value fails validation, send a T009.1 with the EA return code	Send a T009.1 Notification to the Sender.	EA	EA
V4	Validate that the loaded Supply Point contains the Meter that is associated with the Meter ID passed in with the Message.	Send a T009.1 Notification to the Sender	DG	DG
V5	Validate the Effective From Date of the meter is the same or earlier than the Effective From date passed in with the Message:	Send a T009.1 Notification to the Sender.	DF	DF
V6	Validate the loaded Meter is a Physical Meter :	Send a T009.1 Notification to the Sender.	AC	FI
V7	Validate the Status of the Supply is Tradable or Temp Disconnection:	Send a T009.1 Notification to the Sender	DB	FJ
V8	Validate that the meter is not a Pseudo Meter	Send a T009.1 Notification to the Sender	DY	DY
V9	If the GISY value fails validation, send a T009.1 with the EA return code	Send a T009.1 Notification to the Sender.	EA	EA
V10	If the GISX value fails validation, send a T009.1 with the EA return code	Send a T009.1 Notification to the Sender.	EA	EA
V11	Validate the Effective From Date of the Meter is the same or earlier than the Effective From specified in the Message:	Send a T009.1 Notification to the Sender.	DF	DF
V12	Validate the Meter is a Physical Meter .	Send a T009.1 Notification to the Sender	AC	FI
V13	Validate the Meter was Successfully Loaded from the Database.	Send a T009.1 Notification to the Sender	AC	FI
V14	Validate the Meter is in fact Orphaned :	Send a T009.1 Notification to the Sender	AC	FK

	V15	Validate the Effective From Date passed in with the Message is Today's Date or earlier.	Send a T009.1 Notification to the Sender.	DB	DK
	V16	Validate the Meter was successfully loaded from the Database:	Send a T009.1 Notification to the Sender	AC	FL

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.3.6.8 T009.1 T014.0 T014.1	V1	Validate the Sender is the Wholesaler.	Send a T009.1 Notification to the Sender	DA	DL
	V2	Validate the Supply Point contains the Meter that is associated with the Meter Id specified in the Message.	Send a T009.1 Notification to the Sender	DG	DG
	V3	Validate the Meter's Last Modified is the same or earlier than the Effective From date specified in the Message AND the Meter's Effective From date is earlier or the same as the Effective From date specified in the Message.	Send a T009.1 Notification to the Sender	DF	DF
	V4	Validate the Effective From date passed in with the Message is before Today's Date .	Send a T009.1 Notification to the Sender	DB	DK
	V5	Validate the Meter was successfully loaded from the Database.	Send a T009.1 Notification to the Sender	AC	FL
	V6	Validate the Supply Point 's Status is Tradable or Temp Disconnection.	Send a T009.1 Notification to the Sender	DB	FJ

	V7	Validate the Supply Point was successfully loaded from the Database.	Send a T009.1 Notification to the Sender	AC	AC
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Process	Validation ID	DocValidation	ErrorAction	ErrorCode	New Error Code
4.3.7.8 T009.1 T017.0 T017.1	V1	Validate the Message contents (Old Meter and New Meter).	Send a T009.1 Notification to the Sender	AC	FM
	V2	Validate that the Sender of the Message is the Wholesaler.	Send a T009.1 Notification to the Sender.	DA	DL
	V4	Validate that in the Message, the New Meter's Read Date is not before the Old Meter's Read Date.	Send a T009.1 Notification to the Sender	AC	BI
	V5	Validate that the Old and New Meters are successfully loaded from the Database.	Send a T009.1 Notification to the Sender	AC	FN
	V6	Validate that the old meter is a domestic meter	Send a T009.1 Notification to the Sender	DE	FO
	V7	Validate that the Old Meter is in the correct meter state (not discontinued or already swapped)	Send a T009.1 Notification to the Sender	AC	FP
	V8	Validate that both Old and New Meters are Physical Meters.	Send a T009.1 Notification to the Sender	AC	FN
	V9	Validate that neither of the Old or New Meters are Reassessed.	Send a T009.1 Notification to the Sender	DI	FQ

V10	<p>Validate that the following are all identical on both the Old and New Meters:</p> <ul style="list-style-type: none"> Chargeable Meter Size Sewerage Chargeable Meter Size Return to Sewer 	Send a T009.1 Notification to the Sender	DE	FR
V11	Validate that the New Meter is NOT recorded against another Supply Point .	Send a T009.1 Notification to the Sender.	BC	BC
V12	Validate that the New Meter does not exist in a meter network.	Send a T009.1 Notification to the Sender.	DE	FS
V13	Validate that the New Meter's Status is either Active or Pending.	Send a T009.1 Notification to the Sender.	AC	FT
V15	<p>Validate that the New Meter does not have any pre-existing Meter Readings</p> <p>Validate that the Old Meter Read Type is E and the New Meter Read Type is O</p> <p>Validate that the Old Meter Read Type is E and the New Meter Read Type is O</p>	Send a T009.1 Notification to the Sender.	AC	FO
V15	<p>Validate that the New Meter does not have any pre-existing Meter Readings</p> <p>Validate that the Old Meter Read Type is E and the New Meter Read Type is O</p> <p>Validate that the Old Meter Read Type is E and the New Meter Read Type is O</p>	Send a T009.1 Notification to the Sender.	AC	FO

V16	Validate that the Old Meter is recorded against the Supply Point (Doesn't apply for Orphaned Domestic Meter Swap).	Send a T009.1 Notification to the Sender.	BC	BC
V17	Validate that the Old Meter is Active.	Send a T009.1 Notification to the Sender.	AC	AY
V18	Validate that the Supply Point is not Disconnected (Doesn't apply for Orphaned Domestic Meter Swap).	Send a T009.1 Notification to the Sender.	DB	EJ
V19	Validate that the Old Meter Read created is valid.	Exit with no action		
V20	Validate that the New Meter Read created is valid.	Exit with no action		
V21	Save the Old Meter Read to the Database.	Send a T009.1 Notification to the Sender.	DT	DT
V22	Save the New Meter Read to the Database.	Send a T009.1 Notification to the Sender.	DT	DT

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	New Error Code
4.3.8.8 T009.1 T023.0 T023.1	V1	Validate the Sender of the Message is the Wholesaler.	Return a T009.0 Notification to sender.	DA	DL
	V2	Validate the Effective From of the current Trade Effluent is less than or equal to the supplied Effective From date.	Send a T009.1 Notification to Sender.	DF	DF

	V3	Validate Meter Associations were made and Saved to the database.	Send a T009.1 Notification to Sender.	DO	DF
	V4	Validate the Sewerage Supply Point has Service Elements.	Send a T009.1 Notification to Sender.	DN	AW
	V5	Validate the Supply Point is a Sewerage Supply Point .	Send a T009.1 Notification to Sender.	DC	ED
	V6	Validate the Supply Point 's Status is NOT Disconnected.	Send a T009.1 Notification to Sender.	DB	EJ
	V7	Validate the Supply Point was successfully retrieved from the database.	Send a T009.1 Notification to Sender.	AC	AC
	V8	Validate the Effective To date of the Physical Meter has not been set.	Send a T009.1 Notification to Sender.	DT	DT
	V9	Validate the Virtual Meter has been successfully retrieved from the database.	Send a T009.1 Notification to Sender.	DT	EY
	V10	Validate the supplied Effective From Date is less than or equal to Today's Date .	Send a T009.1 Notification to Sender.	DB	DX

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	New Error Code
4.3.9.8 T009.1 T024.0 T024.1	V1	Validate the Sender of the Message is the Wholesaler.	Send a T009.0 Notification to sender.	DA	DL
	V2	Validate that changes have been made to the system.	Send a T009.1 Notification to Sender.	DR	DR

	V3	Validate the Supply Point has been successfully retrieved from the database.	Send a T009.1 Notification to Sender.	AC	Ac
	V4	Validate the Message Effective From Date is less than or equal to Today's Date .	Send a T009.1 Notification to Sender.	DB	DK

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.4.1.8 T006.2 T006.4 T009.1	V1	Validate the Supply Point is a Water Supply Point .	Send a T009.1 Notification to the Sender.	DC	DC
	V2	Validate the Supply Point 's Status is NOT tradable.	Send a T009.1 Notification to the Sender.	AE	EQ
	V3	Validate the Supply Point 's Status is NOT Partial or New.	Send a T009.1 Notification to the Sender	DB	EQ
	V4	Validate the Supply Point was loaded from the Database.	Send a T009.1 Notification to the Sender	AC	AC
	V5	Validate the Sender is the Wholesaler.	Send a T009.1 Notification to the Sender.	DA	DL
	V6	Validate the Supply Point was loaded from the Database successfully.	Send a T009.1 Notification to the Sender.	AC	AC

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
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4.4.2.8 T006.3 T006.5 T009.1	V1	Validate the Supply Point is Sewerage.	Send a T009.1 Notification to the Sender	DC	ED
	V2	Validate the Supply Point 's Status is NOT Tradable.	Send a T009.1 Notification to the Sender.	AE	EQ
	V3	Validate the Supply Point 's Status is Partial or New.	Send a T009.1 Notification to the Sender	DB	EQ
	V4	Validate the Supply Point was loaded from the Database successfully.	Send a T009.1 Notification to the Sender.	AC	AC
	V5	Validate the Sender of the Message is the Wholesaler.	Send a T009.1 Notification to the Sender.	DA	DL
	V6	Validate the Supply Point was loaded from the Database successfully.	Send a T009.1 Notification to the Sender	AC	AC

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.4.3.8 T007.0 T007.1 T007.2 T009.0 T009.1	V1	Validate the Supply was loaded from the Database successfully.	Send a T009.1 Notification to the Sender.	AC	AC
	V2	Validate the Connection Date passed in with the Message is NOT after Now .	Send a T009.1 Notification to the Sender.	AI	AI

	V3	Validate the Sender of the Message is the Wholesaler.	Send a T009.1 Notification to the Sender	DC	DL
	V4	Validate if the Supply Point has an Active Registration that the Active Registration 's Licensed Provider is the Sender of the Message.	Send a T009.1 Notification to the Sender.	DC	AW
	V5	Validate if the Supply Point has an Associated Supply Point that the Status of that Associated Supply Point is not Partial.	Send a T009.1 Notification to the Sender.	DH	DH
	V6	Validate the Supply Point is currently in a state that will allow it to connect.	Send a T009.1 Notification to the Sender.	The Return Code is calculated in the previous process Accept Connection Message.	??, AJ, DH, DW

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.5.1.8 T009.1 T021.0 T021.1	V1	Validate that the Sender of the Message is the Wholesaler.	Send a T009.1 Notification to sender.	DA	DL
	V2	Validate the supplied DPID does not already exist.	Send a T009.1 Notification to Sender.	DM	DM
	V3	Validate the Supply Point is a Sewerage Supply Point .	Send a T009.1 Notification to Sender.	DC	ED

	V4	Validate the SPID is connected.	Send a T009.1 Notification to Sender.	DB	EJ
	V5	Validate the SPID exists in the database.	Send a T009.1 Notification to Sender.	AC	DL
	V6	Validate the Effective Date is in the past.	Send a T009.1 Notification to Sender.	DB	DK

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.5.2.8 T009.1 T027.0 T027.1	V1	Validate the Sender of the Message is the Wholesaler.	Send a T009.1 Notification to the Sender.	DA	DL
	V2	Validate the DPID has not been discontinued at the Effective From Date.	Send a T009.1 Notification to the Sender	DO	DO
	V3	Validate the DPID has been discontinued at the Effective From Date.	Send a T009.1 Notification to the Sender	DQ	DQ
	V4	Validate the DPID passed in with the Message exists in the Database.	Send a T009.1 Notification to the Sender	AC	DR
	V5	Validate the Updated flag is True.	Send a T009.1 Notification to the Sender	DR	DR
	V6	Validate the Predates Change flag is NOT set to True.	Send a T009.1 Notification to the Sender	DF	DF
	V7	Validate the Supply Point is Sewerage	Send a T009.1 Notification to the Sender	DO	ED

	V8	Validate the Supply Point was successfully loaded from the Database.	Send a T009.1 Notification to the Sender.	AC	AC
	V9	Validate the Effective From Date in the message is equal to Today's Date or earlier:	Send a T009.1 Notification to the Sender	DB	DK

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.5.3.8 T009.1 T022.0 T022.1	V1	Validate the Sender of the Message is the Wholesaler.	Send a T009.0 Notification to the Sender	DA	DL
	V2	Validate the Trade Effluent's Effective From date is the same or earlier than the supplied Effective From date AND (the Trade Effluent's Discharge Point has no Last Modified date or the Trade Effluent's Discharge Point 's has a Last Modified before or earlier than the supplied Effective From date):	Send a T009.1 Notification to the Sender	DF	DF
	V3	Validate the Updated flag has been set.	Send a T009.1 Notification to the Sender.	DR	DR
	V4	Validate the Supply Point was loaded from the Database.	Send a T009.1 Notification to the Sender.	AC	AC
	V5	Validate the Effective From date is equal to Today's Date or earlier.	Send a T009.1 Notification to the Sender.	DB	DK

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.5.4.8 T009.0 T025.0 T025.1	V1	Validate that the Meter Read Date is before or same as Today's Date .	Return a T009.0 to the sender.	DK	DK
	V2	Validate that the sender is a valid Licensed Provider .	Return a T009.0 to the sender.	DA	AA
	V3	Validate the Supply Point 's Status is Not New.	Return a T009.0 Notification to Sender.	DB	AV
	V4	Validate the Supply Point was loaded from the Database Successfully.	Return a T009.0 Notification to Sender.	AC	AC
	V5	Ensure the SupplyPoint has been specified.	Send a T009.0 Notification to Sender.	DF	DF
	V6	Validate changes were made to the Supply Point .	Send a T009.0 Notification to Sender.	DR	DR

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.5.5.8 T009.1 T025.2 T025.3	V1	Validate that the Meter Read Date is before or same as Today's Date .	Return a T009.0 to the sender.	DK	DK
	V2	Validate the Sender of the Message is the Wholesaler.	Send a T009.0 Notification to the Sender	DA	DL

	V3	Validate the Supply Point status is not null New.	Send a T009.0 Notification to Sender.	DB	AV
	V4	Validate the Supply Point has been specified.	Send a T009.0 Notification to Sender.	AC	AC
	V5	Validate the Effective From date.	Send a T009.0 Notification to Sender.	DF	DF
	V6	Validate that the Supply Point was changed.	Send a T009.0 Notification to Sender.	DR	DR

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.5.6.8 T009.1 T026.0 T026.1	V1	Validate the Sender of the Message is a Wholesaler.	Send a T009.1 Notification to Sender.	DA	DL
	V2	Validate the SupplyPoint has been specified.	Send a T009.1 Notification to Sender.	DQ	DQ
	V3	Validate the SupplyPoint was loaded from the Database successfully.	Send a T009.1 Notification to Sender.	AC	AC
	V4	Validate the supplied EffectiveFrom Date is equal to Today's Date or Earlier.	Send a T009.1 Notification to Sender.	DB	DB

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>

4.5.7.8 • T009.1 T028.0 T028.1	V1	Validate that the Sender of the Message is the Wholesaler.	Send a T009.0 Notification to Sender.	DA	DL
	V2	Validate the Supply Point was successfully retrieved from the database.	Send a T009.1 Notification to Sender.	AC	AC
	V3	Validate changes were made to the Database.	Send a T009.1 Notification to Sender.	AC	DO
	V4	Validate the supplied EffectiveFrom Date is less than or equal to Today's Date .	Send a T009.1 Notification to Sender.	DB	DK

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>
4.7.118.4 Non Transact ional	V1	Validate the loaded Supply Point has a Customer Name associated with it.	Send a T009.0 Notification to the Licensed Provider.	DW	DW

Process	Validation ID	DocValidation	ErrorAction	ErrorCode	<u>New Error Code</u>

	ID				
4.7.125.4 T005.0 T005.1	V1	Validate that the Sender was loaded successfully.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP)	BG	FU
	V2	Validate Meter Read Type.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	AT	AT
	V3	Validate that the Supply Point to be used is loaded from the Database.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	AC	AC
	V4	Validate that the Meter is loaded from the Database.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	AC	EY
	V5	Validate that the Meter is in a valid state for a Read (i.e., not Discontinued or Swapped).	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	DB	AP
	V6	Validate the Meter Read Type according to the Supply Point State.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	AT	AT
	V7	Validate that if the Sender is a Licensed Provider , that the Meter is not Reassessed.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	DI	AN
	V8	Validate that the Meter is not Reassessed.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	AT	DY
	V9	Validate the Meter's State for a Temporary Disconnection/Reconnection.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	AT	AH
	V10	Validate that the Meter Read date is not earlier than the Effective To date of any Unmeasurable Service Elements on the Supply Point	Return a T009.1 Notification to the Wholesaler.	ED	FV
	V11	Validate that if this Meter Read is of Type I OR is of type O the Rollover Indicator was NOT specified in the Message.	Return a T009.1 or 9.0 Notification to the Sender and save the Meter to Ignored Readings	EI	EI

V12	Validate that the Meter Read is not a duplicate Initial or Final.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	AT	FW
V13	Validate the duplicate's Rollover Indicator matches the Read's Rollover Indicator	Return a T009.1 or 9.0 Notification to the Sender	EH	EH
V14	Validate that an exact duplicate Ignore Read exists for the Meter Read (if it is a ReRead).	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	AC	AD
V15	Validate that the Supply Point is Registered to a Licensed Provider.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	BG	BG
V16	Validate that the Supply Point contains a valid Metered Service Element.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	BC	BC
V17	Validate the Meter .	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	BC	BC
V18	Validate that the Wholesaler sent the message. If not.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	BG	DL
V19	Validate that the Last Meter Reading is on a date before the Meter Read Date.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	AC	FX
V20	Validate the calculated Is Rollover Flag of the Meter Reading does not disagree with the Rollover Indicator passed in with the message.	Return a T009.1 or 9.0 Notification to the Sender.	EE	EE
V21	Validate the comparison of the calculated Is Rollover Flag of the Meter Reading against the Rollover Indicator passed in with the message does not result in a query.	Return a T009.1 or 9.0 Notification to the Sender.	EF	EF
V22	Validate And Calculate the Volume.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	as returned from calculation	

	V23	Validate that no readings already exist for a Meter if the Read Type is Initial.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	AT	FY
	V24	Validate that the Meter Read is not a duplicate, other than Initial or Final.	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	BF	BF
	V25	Validate that the reading date does not pre date the effective from date of the meter	Return a T009.1 or 9.0 Notification to the Sender (i.e., Wholesaler or LP).	DF	DF

