Final B2B Procedure Walkthrough

24 March 2017

Agenda

- B2B document scope breakdown
- High Level Change Impact
- Service Orders Procedure Change Walkthrough
- One-Way Notification (incl. Notified Parties)
- Customer Site Details Notification
- Meter Data Process
- B2B Guide
- As Built Consultation
- Questions
- Appendices

B2B Document Scope and Consultation Requirements

Formal Consultation and IEC Sign off required

Service Orders

Customer Site Details Notification

Meter Data Process

One Way Notification

NEM RoLR Processes: Part B – B2B Procedure

Glossary and Framework – B2B references only

Technical Delivery Specification

Updates and reviews do not require formal consultation

B2B Guide

High Level Impact Analysis of B2B Procedure Changes Over the consultation period

	Service Orders	CDN	Meter Data	One Way Notification	B2B Guide	ROLR	Tech Delivery Spec
Round 1 Key Changes	• Communication Model changes (Initiator, Actioner and Notified party) • New and Renamed Service order Types and Sub Types (this also has flow on to Processes) • New De En Reasons • Info stripped and added in a "Guide".	Addition of • Email Address • Life Support field (opposed to SL/LS field) (when this is flagged to Y the contact details block displays) • New Contact names and details for LS • Site Access Notification CDN • A Life Support Contact Details Block	3 new communication processes • Pre Installation • Metering Installation • Meter Read Process	Provision of these OWN • Network Tariff Notification • Planned Interruption • Meter Fault Notice • Notice of Metering Works	• New Doc, provides the context for the procedures	• Changes to account for new roles and reports (i.e. MC reports)	• This doc has been prepared based on the discussion paper and feedback that looked at • Keeping existing ack patterns • NP and eHub • One to Many and Multi Party Protocol • Other functionality
Round 2 Key Changes	• Sub Type Changes, including adding Re-En Sub Types back in • Lead Coordinator Function to be added in • New OWN (and referenced) to facilitate tech delivery of 3rd party notification • Transaction tabled fleshed out to account for Sub types	• Life Support changes backed out • Pre Installation Request added	A Remote Services Request redesigned to facilitate transactions related to Minimum Specs	• Addition of Notified Party OWN (recommendation by SWG to allow backwards capability) • OWN can accommodate XML payloads	• Changes to align it with the B2B Procedure changes	• Minor editorial corrections	• Transaction Groups are included in the Technical Delivery Specification. B2B WG would like to add new groups, to enable participants to use different protocol methods to send different Transaction group transactions (3 options)
FINAL	• **Notified Parties – not mandatory** • **Coordinated Parties (Option 1)** • **New SO Sub Types** • **Transaction Table updated to reflect and procedures changes** • **Event Codes added**	• **Email Address is Optional (for supply issues only)** • **Pre Installation Request removed**	• **Mainly editorial updates** • **Initiator ID and Recipient ID removed in PMD , VMD , MDN & RSR Request (this info is in the Header)** • **Lots of UserDef field added to RSR**	• **One Way Notification Process opposed to OWN transaction more clearly defined** • **XML vs CSV use** • **Inclusion od additional fields in Meter Exchange, Meter Fault (assists with Scheduling)** • **PIN – additional ReasonForInter** • **Notified Party OWN**	• **This doc will continue to evolve!**	• **Updates to align with Tech Spec requirements** • **Timeline added**	• **Alignment to Procedures**

Service Order Procedure

Service Order Process

The changes to Service Orders are fundamentally driven by the change to the Industry's Future Mode of Operation (FMO) – effective 1st Dec 2017.

Key conceptual changes

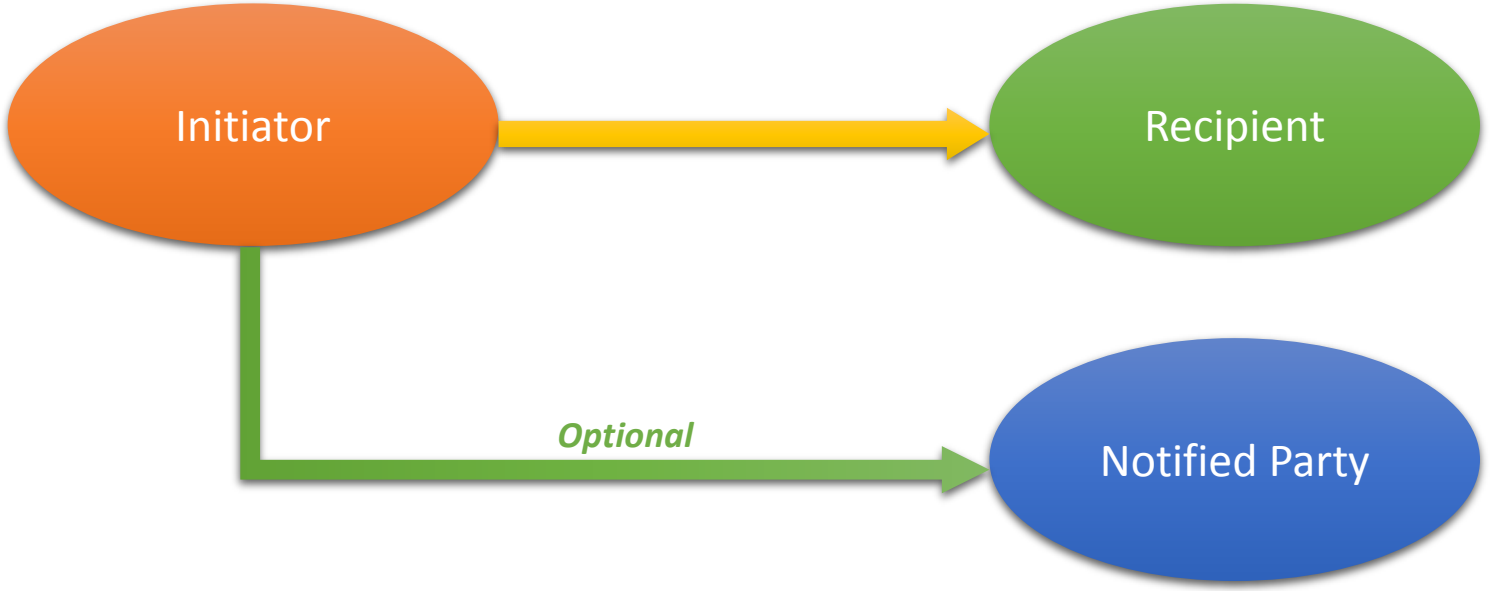
- Inclusion of Notified Party
- Inclusion of a De-energisation method and reason code (and service provider discretion)
- Provision for additional Safety Paperwork reference (for Metering)
- Provision for a "Service Order Coordinator"

Additions to the content of service orders:

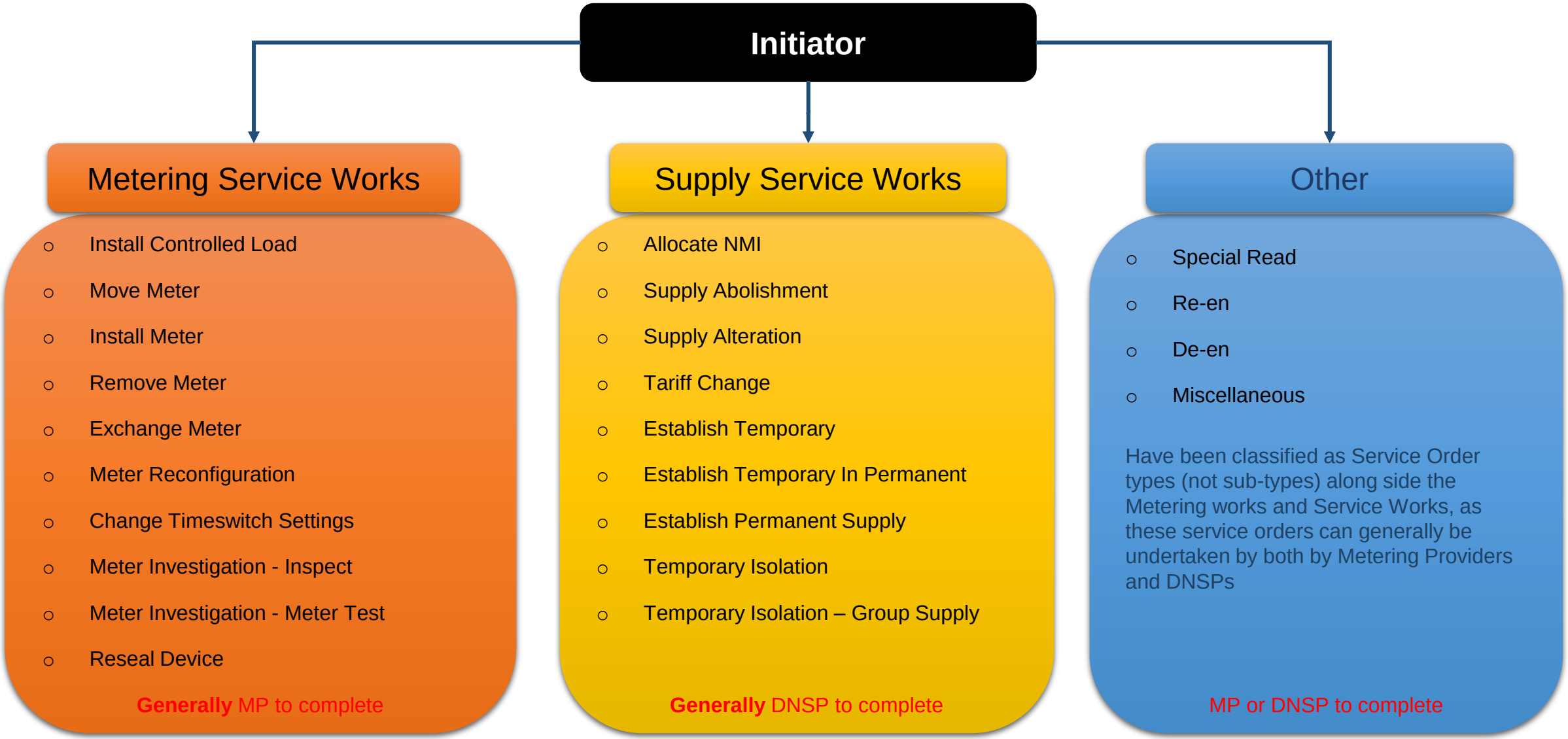
- Inclusion of Life Support flag
- New fields to describe type of metering required (e.g. CT)
- New fields to describe site's electrical characteristics (e.g. number of phases)
- New fields to describe Supply Installation needed (e.g. Overhead/Underground)

Transactions Service Order Model

- Initiator – Party that sends the Service Order
- Recipient – Service Provider who will carry out the work
- Notified Party – Party who needs to know about the service order request (Optional – “Notified Party” transaction is explained in the “One Way Notification Procedure” section.)

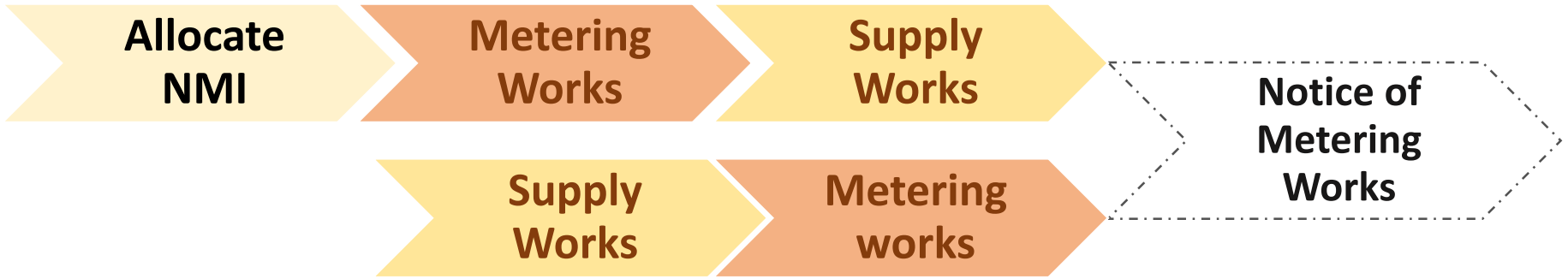


Basic Service Order Types/Sub-types



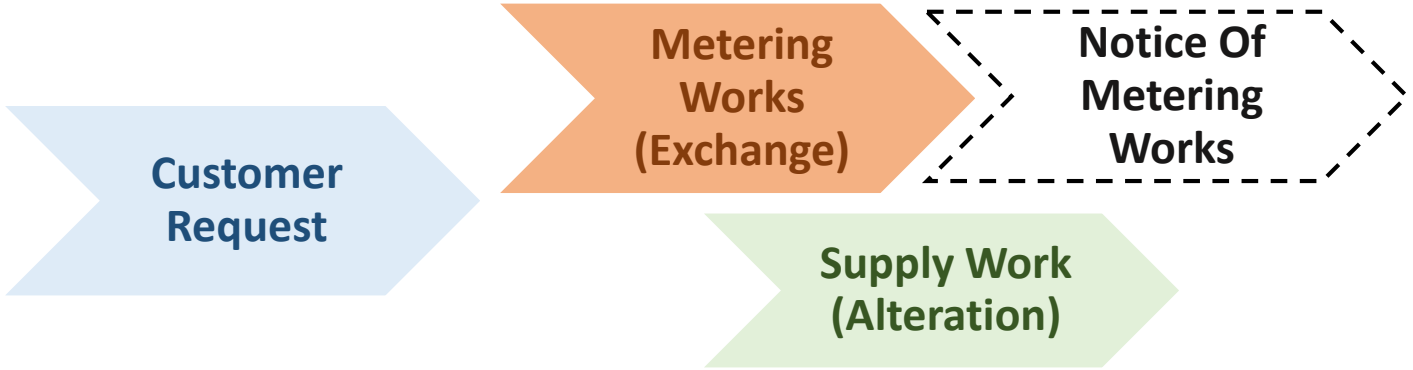
Service Order sequence needs to be flexible

For New Connections Process, B2B needs to allow for processes to be undertaken in different sequences to allow for different Jurisdictional requirements and also to allow flexibility for future process improvements.

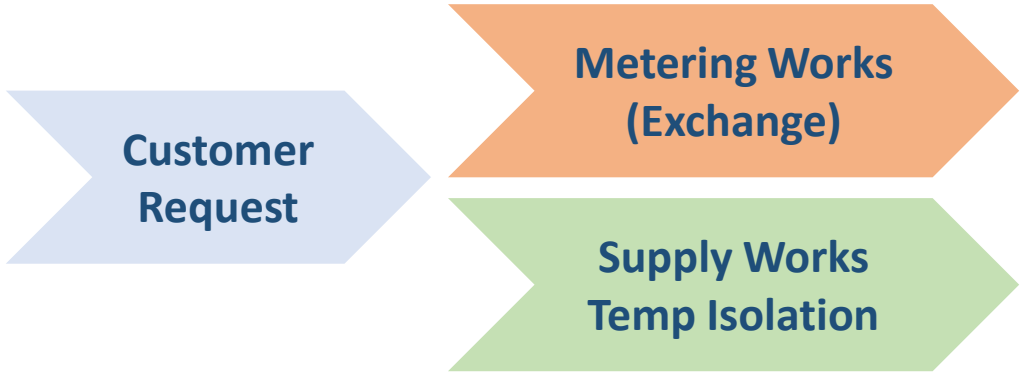


Examples of Other Multi-Party Scenarios

- Upgrade from 1 phase to 3 phase supply



- Meter exchange requiring Service isolation



One Way Notification Procedure

OWN at a glance

Existing/modified	New
• Meter Exchange Notification (csv) • Network Tariff Notification (csv)	• Meter Fault and Issue Notification (xml) • Planned Interruption Notification (xml) • Notice of Metering Works (xml) • Notified Party (detailed on next page) (xml)

Meter Exchange Notification (MXN)

- provides selected information from Initiators for planned mass meter replacements to Recipients

Network Tariff Notification (NTN)

- Allows an Initiator (the DNSP) to inform the Recipient of a proposed Network Tariff change

Planned Interruption Notification (PIN) - NERR 99 A

- Allows an Initiator to inform a Recipient of a planned interruption to supply at a single or at multiple End User sites to meet regulatory requirements

Meter Fault and Issue Notice (MFN) - NER 11.86.7

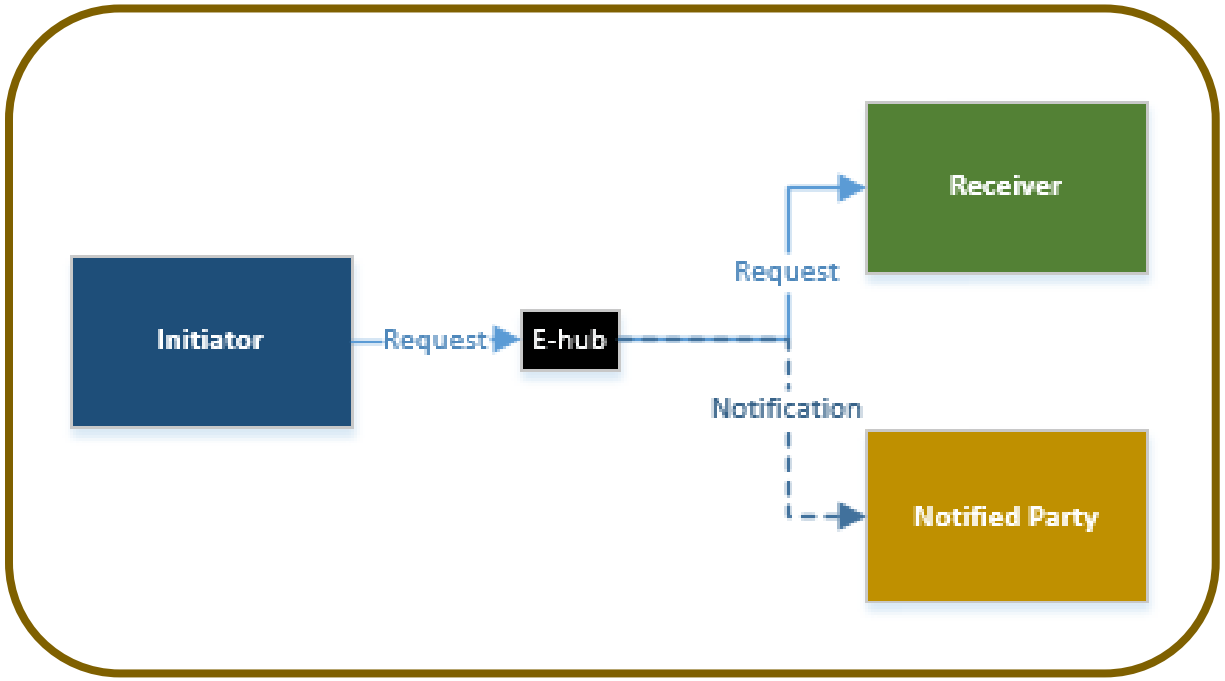
- Allows an Initiator to send information relating to a Meter Fault or Issue to a Recipient. This includes meter faults and meter changes due to the meter not meeting Metrology requirements

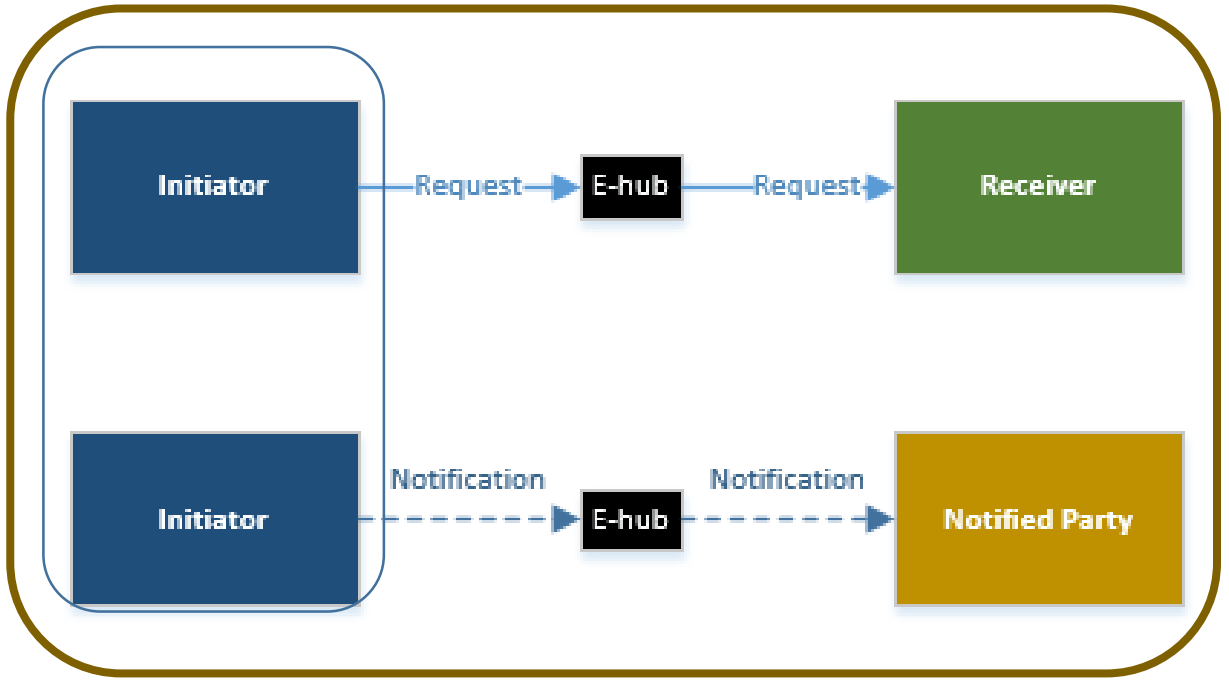
Notice of Metering Works (NMW) - NER 12.2.3

- Allows an Initiator to inform Recipients of the completion of Meter Works at a Customers site – standardise and automates existing paper process

Notified Party Transaction

- New transaction in the One Way Notification Procedure
- It is an Optional transaction, and can be used by Initiator to provide information about the Service Order to another party that may be affected due to the Service Order.
- This process can be used to send notifications to one or multiple Notified Parties.
- Either of the two mechanisms below can be used to send notifications to the Notified Party using "NotifiedParty" transaction





Customer and Site Details Notification Procedure

CSDN at a glance:

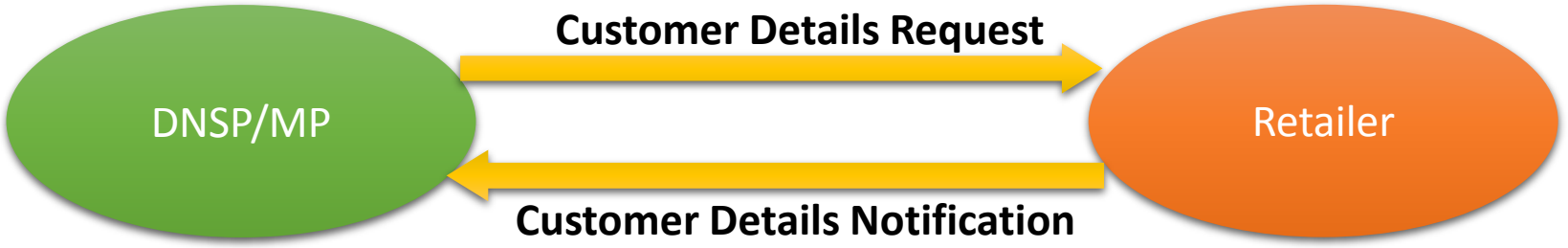
Existing/modified	New
• Customer Details Request • Customer Details Notification • Customer Details Reconciliation • Site Access Notification	• Site Access Request

- Customer Details information now flows to parties (e.g. MP) in addition to LNSP.
- Unsolicited CSDNs sent sequentially to each party.
- Customer Details Request (CDR) is always directed to Retailer.
- Site Access Notification has different triggers.
- Formalised manual processes for DNSP's (email) to notify Life Support customers.

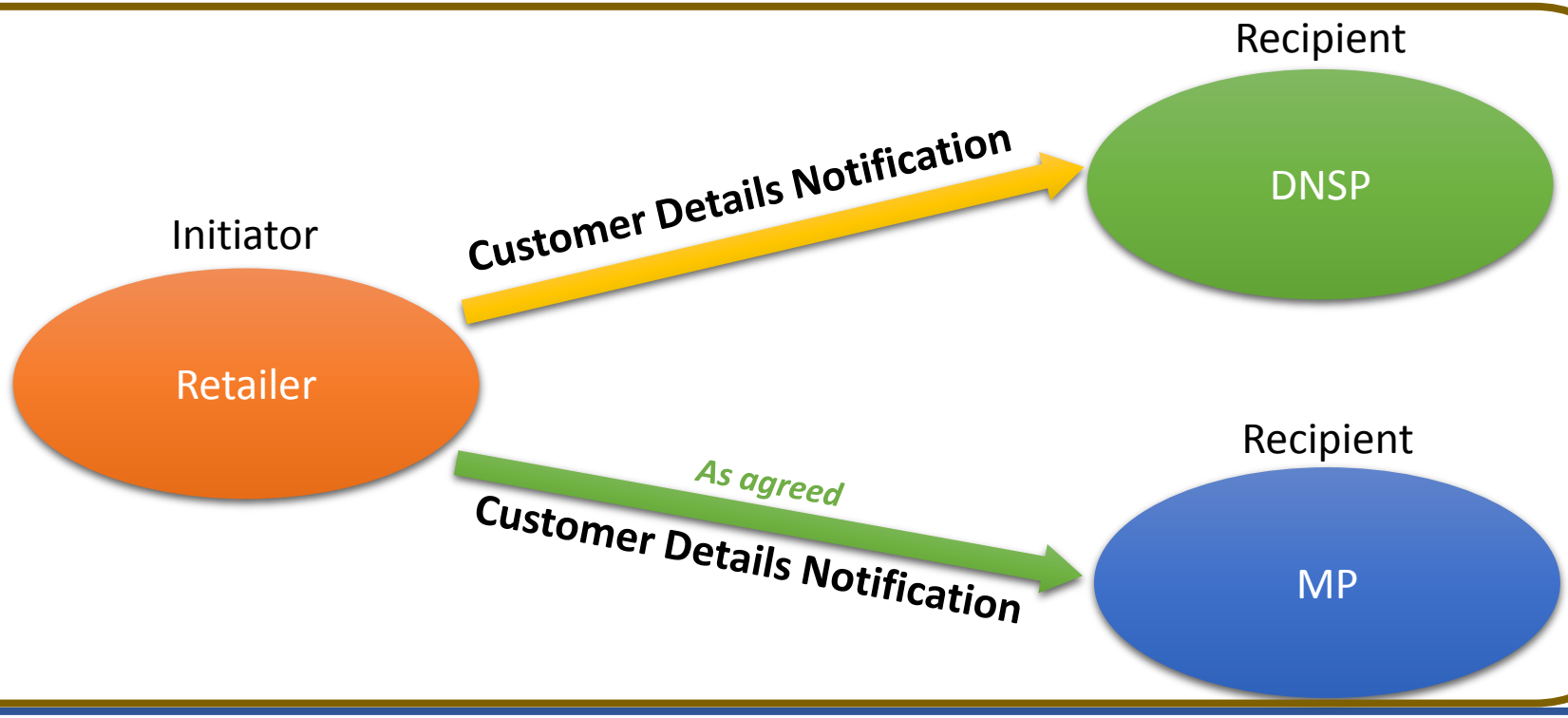
- New request for site access information for a party undertaking field activities (either DNSP or MP)
- Unsolicited Site Access details flow sequentially from the Retailer to each party.
- Any party can request Site Access details from any other party.

Customer Details (Continued)

Solicited
(based on Request-Response method)



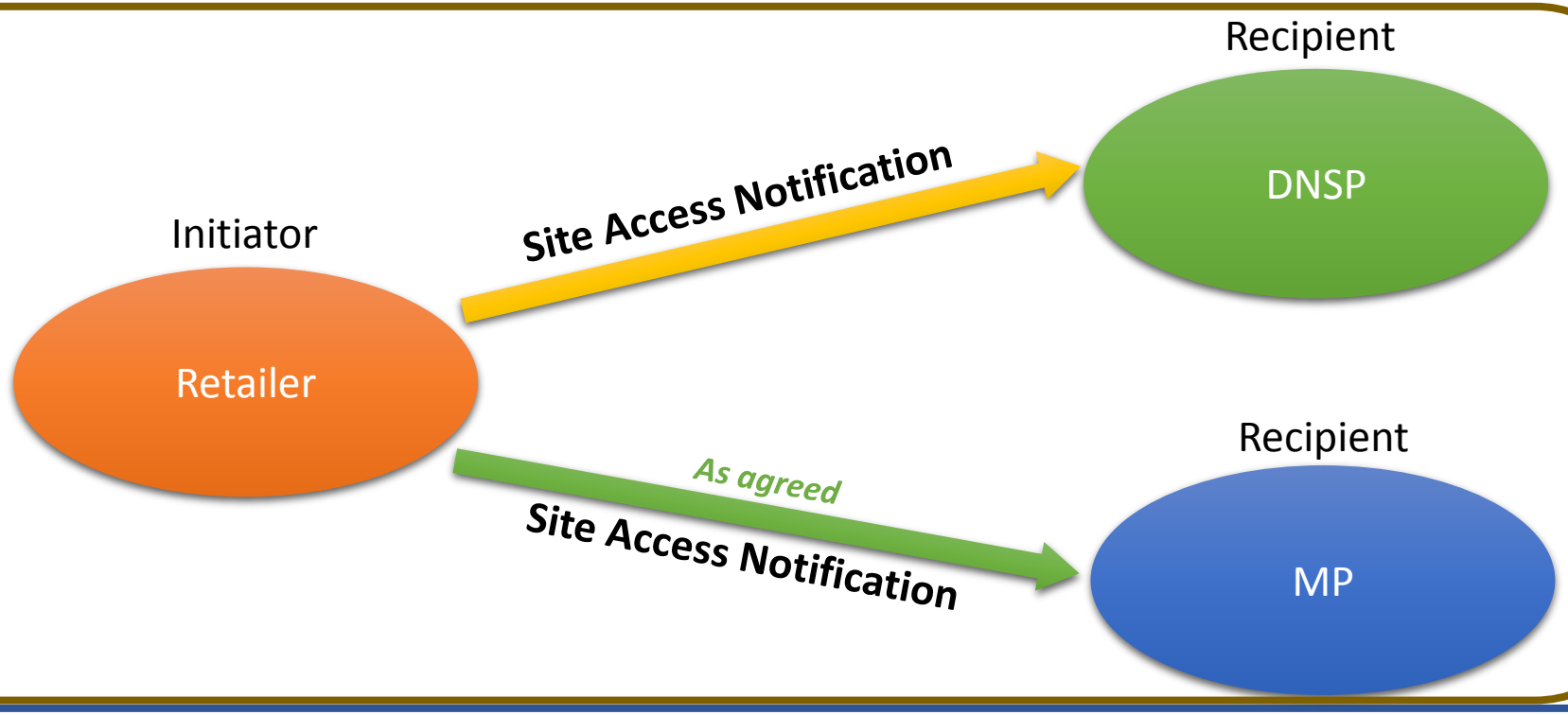
Unsolicited
(based on One-way trigger method)



Site Access Process (Modified)

Solicited
(based on Request-Response method)

Unsolicited
(based on One-way trigger method)



Meter Data Process

MDP at a glance:

Existing/modified	New
• Meter Data Notification • Provide Meter Data • Verify Meter Data	• Remote Service Request • Remote Service Response

New investigation codes for Verify Meter Data (VMD)

Added:

- Verify / Missing Registers
- Require Estimate Read
- Meter Churn

Removed:

- Recipient not responsible for NMI (same as a rejection)
- Require Latest Version (current data always provided)

- Meets the Minimum Service Specifications for “Meter Read - On Demand”
  - Allows real-time remote meter reads
  - Meets obligation NER S7.5.1.C

Agreement amongst parties is required to use this transaction that best suits their business needs.

B2B Guide

What is it?

- The B2B Guide describes *how* B2B Communications can *typically* be used
- It is not a description on mandated procedures – It depicts likely / common process examples

What has changed in this version?

- Alignment with final procedures
- Diagram has been included depicting boundaries between DBs and MPs
- New Connections per Jurisdiction Process flows
- Service Order Scenario Table added

What will change between now and 1 Dec 2017?

- Additional Worked Examples
- Typos / Clarifications
- Processes based on Victorian Derogation decision

How will changes be made?

- Suggestions for amendments or inclusions should be put forward to the IEC via your industry representative

As-built B2B consultation

- AEMO on behalf of the IEC will open a B2B as-built consultation for the purposes of making corrections or fixing manifest errors in the B2B Procedures
- The B2B WG will be meeting on **30 March** to agree the limited scope of this consultation and publish this as a statement in the papers opening the consultation on **12 April**
- It is anticipated that this consultation will exclude schema or system changes unless recommended by the IEC but will include corrections and fixes – which AEMO have already begun to Log.
- B2B WG and AEMO will maintain a log of changes and the B2B WG will meet monthly to review these, recommending changes to procedures to the IEC with final publication expected on 30 Nov 2017.

Indicative Timeline

12 April
Open consultation

- B2B WG Meeting April
- IEC Meeting 8 May
- B2B WG Meeting May

2 June
Close Stage 1 consultation

- B2B WG Meeting June

3 July
Publish Draft Determination

- B2B WG Meeting July
- IEC Meeting 1 August
- B2B WG Meeting Aug
- B2B WG Meeting Sep

19 Oct
Close stage 2 Consultation

- B2B WG Meeting Oct
- B2B WG Meeting Nov
- IEC Meeting 21 Nov

30 Nov
Publish final Determination

You can also send questions

- by email to POC@aemo.com.au or
- approach a B2B WG member.

Appendices

Background to Changes
Underpinning principles
IEC and B2B WG Members
Consultation Timeline

Background – Why does B2B have to change?

- Policy reform - Implementation of Metering Competition
  - Fundamentally changing the operating model for the industry
  - Expands competitive metering from low volume C&I to hi-volume mass market

- Existing Roles have changes to their functions and responsibilities (DNSP and Retailers)
  - Responsible Person (RP) will no longer exist
  - Distribution Business not longer responsible for new metering
  - Retailer to appoint metering service providers

- Metering Coordinator (new role) introduced with relationships governed by commercial agreements.
  - FRMP appoints MC
  - MC appoints MP/MDP

- Results in significant change

Underpinning Principles

- ***B2B factors;*** ask that the B2B procedures
  - come at a reasonable costs of compliance v benefits;
  - promote innovation and not restrict barriers to entry;
  - are able to be implemented in a reasonable timeframe.

- ***B2B Principles;*** provide procedures that
  - take a uniform approach in all jurisdictions;
  - are efficient, effective and reliable;
  - avoid discrimination between parties;
  - protect the confidentiality of commercially sensitive information.

- ***B2B communications;*** must include
  - data inputs/outputs;
  - timings and process maps;
  - content and format;
  - delivery method and backup.

B2B Procedures – simple communications to affect metering and market outcomes. Should be simple, efficient, reliable and easy to implement and promote innovation in advanced meter services.
They do not impose barriers to entry or discriminate between parties. They do protect confidential information and ensure a uniform approach in all states.

- ***B2B Parties are:***

Distribution Network Service Providers, Retailers, Local Retailers, Metering Coordinators, Metering Providers, Metering Data Providers, Embedded Network Managers and other Third Party B2B Participants.

IEC / B2B WG Members

IEC Members

- Chair
  - Mr John Pittard (AEMO)
- Metering
  - Marco Bogaer
  - Dean Van Gerrevink
- Distribution Network Service Providers
  - Alistair Legge
  - Peter Price
- Retail
  - David Markham
  - Peter Van Loon
- Customer
  - David Havyatt

B2B Members

- Metering
  - Charles Coulson (Metropolis)
  - Paul Greenwood (Vector)
  - Helen Vassos (Active Stream)
  - Shaun Cupitt (Acumen)
- Network
  - Brett McLean (Ue)
  - Anna Russo (Endeavour)
  - David Sales (TasNetworks)
  - David Woods (SAPN)
- Retail
  - Mark Riley (AGL)
  - Aakash Sembey (Simply)
  - Stef Macri (Red/Lumo)
  - Karly Train (EA)

AEMO B2B

- Work Stream Leader
  - Chris Cormack
- Technical Specialists
  - Paul LeFavi
  - Andrew Suwignjo
  - Jackie Krizmanic

Consultation Timeline

Date	Activity
27 Oct 2016	Initial Materials Released for consultation
2 Dec 2016	First Stage Consultation Closes
23 Dec 2016	Second Stage Consultation Opens
20 Jan 2017	Second Stage Consultation Closes
6 Mar 2017	Final B2B Procedures Published