

# Build Pack Change Request 20

# Notice of Changes

4 March 2022





EDM#59148775

#### Western Power

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## 2. Notice

04 March 2022

#### To Electricity Industry Code Participants,

In accordance with section 5.3(a) of the SWIS Communication Rules, the following advises of Western Power's intention to make changes to its Build Pack documentation and upgrade its market facing systems. This Notice will be referenced here within as Change Request #20.

#### NOTICE

Under Change Request #20, Western Power intends to implement changes to the Build Pack to contemplate advanced metering infrastructure (AMI) and associated B2B transactions for Re-energisation and De-energisation. The bulk of the changes covered under CR#20 were advised under Change Request #18 which was implemented on 29 June 2020.

Western Power plans to publish a new version of the Build Pack on 01 March 2022 and implement the changes on 18 March 2022.

Code Participants will have until 15 February 2022 to provide comment on the Build pack amendments. If no response is received by 15 February 2022 under Clause 5.3 (c) of the SWIS Communication Rules, Western Power will consider the change to be agreed, and will proceed to schedule the release according to the CR#20 notice.

In accordance with section 5.4(a) of the SWIS Communication Rules, all Code Participants will have the ability to test the proposed change in Western Power's test environment from 28 February 2022 through to 11 March 2022.

Code Participants were advised of the change and required to indicate their intention to test by 17:00 WST 17 December 2021 and need to work with Western Power to ensure that the necessary communications and system connectivity for testing is in place by 16:00 WST 21 February 2022.

All Code Participants are encouraged to review the detail of this notice and investigate how the changes will / may impact their systems.

The following schedule is proposed for Change Request #20:



Activity	Date
Confirm Intention to Test	17 December 2021
Change Request First Notice to Market Participants	31 January 2022
Reminder Notice to Market Participants	08 February 2022
Review & Comments by Market Participants	15 February 2022
Market Participant Testing	28 February 2022 – 11 March 2022
Notice to Market Participants Test Closure	11 March 2022
Market Participant Testing Acceptance	11 March 2022
Implementation Notice	15 March 2022
Implementation	18 March 2022
Post Implementation Acceptance	31 March 2022

Western Power will be available to meet if requested to discuss questions that individual Code Participants may have.

Code Participants are invited to submit written comments on the proposed changes to metering.systems.support@westernpower.com.au by no later than 16:00 WST 15 February 2022.



# 3. Change Request #20

Change Request #20 proposes amendments to Build Pack documentation to contemplate advanced metering infrastructure (AMI) and associated B2B transactions for Remote Re-energisation and Remote Deenergisation.

Western Power has proposed amendments to support:

• Processes for remote de-energisation and re-energisation

Proposed amendments are detailed in section 4 of this Notice. This bulk of this change was primarily covered in CR#18 and CR#20 provides an update on the change that was originally planned in CR#18.



# 4. Proposed Amendments

#### 4.1 Service Order Process

Section	4.1 Process Overview	Amendment Typ	e Change
Description	Update the Service Order Table to inse	rt new Descriptions for remote	services.
Proposed Amendment			
Service Order Type	Description	Typical Triggers	Obsolete Terminology
Re-energisation	Retailer requests a Service Provider to arrange for a Connection Point to be re- energised. Methods include: Insert Fuse Remote re-energise (AMI) Main switch Meter connection Connection at pole or pillar or pit Remove sticker	Energisation of a new supply where a previous new connection ServiceOrderRequest required the Site to be left de-energised. Re-energisation of a Site following a request to de- energise. A need to re-energise a Connection Point arises where a Customer: • is moving into a premise; or • has previously requested that a supply be temporarily de-energised and now	Turn-on Move in Reconnection Energisation Insert Fuse Remove Sticker



		wishes the supply restored; or • has been disconnected for non-payment.	
De-energisation	<ul> <li>Retailer requests Service</li> <li>Provider to arrange for a</li> <li>Connection Point to be de- energised.</li> <li>Methods include: <ul> <li>Remove Fuse</li> <li>Remote de-energise(AMI)</li> <li>Turn off main switch and sticker</li> <li>Turn off main switch</li> <li>Meter Disconnection</li> <li>(meter wire disconnection or turn meter)</li> <li>Disconnection at pole top, pillar box or pit</li> </ul> </li> </ul>	A need to de-energise a Connection Point can arise in these situations: • where the Retailer has grounds to proceed with a De-energisation for non- payment (where the Customer has failed to meet their obligations under jurisdictional rules). • the Customer requires a temporary disconnection of supply because the Site is to be left vacant for a time; or • the Customer is moving out of a premise and no new tenant has requested supply at the same address.	Turn-off Disconnection Remove Fuse Apply sticker Move out



4.2	Section	4.2 Service Orders Requiring Customer Consultation	Amendment Type	Addition
	Description	New clause relating to customer consultation follo	owing remote re-energ	isation and arming of an AMI meter.
	Proposed Amendment	t		
	c. For sta the pre	AMI meters, where the Service Provider has success te. Once a meter is armed, electricity flows are enabl customer or by the Service Provider under a service tess the button to re-energise their meter or for reque	fully completed a Re-er ed by pressing a buttor level agreement. The r sting a push button ser	nergisation request, the meter will be placed into an armed n on the meter at the site. This action may be performed by etailer is responsible for notifying customers of the need to vice from Western Power.

4.3	Section	4.3 Explanation Use of Exception Codes Table	Amendment	t Type	Addition	
	Description	Additions to table under existing exception cod	e values, to con	template	remote metering services.	
	Proposed Amendr	nent				
	Value	Definition	Used with Service Order Status	Special	Notes	
	Metering Problem	Metering problem preventing completion of remote service	Not Completed	Commu	nications Problem	
	Metering Problem	Metering problem preventing completion of remote service	Not Completed	Commu	nication Ok Metering Problem	
	No Supply	Supply Not Available	Not Completed	Remote De-ene	e site already rgised	
	Other		Not Completed	Remote Energis	site already ed	



Retailer Cancellation	Retailer cancellation (any charges for work partially completed should be indicated by appropriate <i>Product Codes</i> ).	Not Completed	Failed to Cancel. Remote De-energise already performed	
Retailer Cancellation	Retailer cancellation (any charges for work partially completed should be indicated by appropriate <i>Product Codes</i> ).	Not Completed	Failed to Cancel. Remote Re-energise already performed	
Unsafe	Deemed unsafe to complete Request.	Not Completed	Load side voltage detected on remote Re-energise	

4.4	Section	4.4 Re Energisation	Amendment Type	Addition
	Description	Additional clauses relating to the remote re-energis	ation process.	
	Proposed Amendmen	t		
	j. For state or t ener the k. For	AMI meters, where the Service Provider has successf e. Once a meter is armed, electricity flows are enabled he Service Provider under a service level agreemen rgisation process and Western Power has provided in instructions is <u>https://www.westernpower.com.au/fa</u> AMI meters, the Re-energisation <u>ServiceOrderRespon</u>	ully completed a Re-er by pressing a button or nt. Retailers should pr structions on how to p <u>qs/metering/advanced</u> <u>nse</u> advises of the succ	nergisation request, the meter will be placed into an armed in the meter. This action may be performed by the Customer, rovide suitable advice to the Customer regarding the re- irress the button on the Western Power website. The link to <u>i-meters-energisation/</u> cessful completion of the Re-energisation. That is, that the
	I. A su	bsequent Standing Data Update notification advises the sequent Standing Data Update notification advises the sequence of the NMI has moved from de-energised to energing the sequence of the s	hat the button on the n sed.	neter has been pushed enabling electricity flow and that the
	m. For site	failed remote Re-energisations, see 4.3 where a Mete to return electricity supply to the Customer.	ring Problem exception	n code value is returned, the Service Provider will attend the
	n. If th ener the	e Retailer receives an Unsafe exception code value, t rgise the Site until the appropriate actions have been Customer regarding the re-energisation process.	his means a load side v taken to rectify the u	voltage has been detected. The Service Provider will not re- nsafe condition. Retailers should provide suitable advice to
	o. Whe Pow	en a field crew is required to attend site to re-energister to advise of urgent re-energisation request.	se the meter the retaile	er will raise a miscellaneous service order and call Western







### 4.2 Customer Transfer and Standing Data Procedure

4.6	Section	<ul><li>4.6 De-energisation</li><li>4.6.2 Business Rules</li></ul>	Amendment Type	Addition
	Description	Contemplate a combination of manual and remote	e metering at a single	premise.
	Proposed Amendment	t		
	Advanced Meters and Where a de-energisation for both remote & man automation.	Multi Metered Sites on service order is raised on a NMI with a combination nual de-energisation by a field resource, as applicable	on of AMI and non-AMI e. These requests will b	meters the de-energisation service order will be allocated e completed manually by a field resource and not using











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4.10	Section	4.10 Re-energisation	Amendment Type	Addition
	<b>Description</b> NMI standing data updates associated with de-energisation and re-energisation services.			
	Proposed Amendment	t		
	4.10 Overview			
	Re-energisation refers	to the business process where a retailer initiates acti	on that leads to the me	eter for a particular NMI being re-energised.
	When this business pro plus one (1) Full SDU 1	ocess is complete, the network operator communicat 0 triggered by the earlier Partial SDUs. When the Serv	es the standing data ch vice Order closes, no ac	anges to the market by publishing a number of Partial SDUs Iditional Full SDU is published.
	As a result of the Re-er	nergisation, a number of Partial SDUs plus one (1) Ful	l SDU will be published	to the current retailer, who should expect to receive:
	1) one Partial SDU to n	otify of the change in Register status from "R" Remov	ved to "C" Current for e	each Register at the Meter;
	2) one Partial SDU to n	otify of the change in Meter status to "C" Current;		
	3) one Partial SDU to n	otify of the NMI status of "A" Active; and		
	4) one Full SDU to noti	fy of the full current standing data for the NMI.		
	It should be noted that of the Reenergisation.	t in reference to step 3) above, the Partial SDU is pub	lished irrespective of w	hether or not the status of the NMI has changed as a result
	For AMI meters, where is armed, electricity flo under a service level a	e the network operator has successfully completed a R ows are enabled by pressing a button on the meter. T greement. Retailers should provide suitable advice to	Re-energisation request his action may be perfo the Customer regardir	, the meter will be placed into an armed state. Once a meter prmed by the retailer, customer or by the network operator ng the re-energisation process.
	For AMI meters, the <u>Re</u> placed in an armed sta	e-energisation Service Order Response advises of the te.	successful completion	of the Re-energisation. That is, that the meter has been



As result of the de-energisation, the NMI will have a meter status of "D" De-energised. Current and associated Registers will have a status of "R" Removed. The NMI status will remain as De-energised until the button on the meter is pressed. Once the button on the meter is pressed, a number of Partial SDUs plus one (1) Full SDU will be published to the current retailer, who should expect to receive:

1) one Partial SDU to notify of the change in Register status from "R" Removed to "C" Current for each Register at the Meter;

2) one Partial SDU to notify of the change in Meter status to "C" Current;

3) one Partial SDU to notify of the NMI status of "A" Active: and

4) one Full SDU to notify of the full current standing data for the NMI.















Section	4.14 Re-energisation 4.14.2 NMI Standing Update Notification	Amendment Type	Addition
Description	Addition clause for AMI meters to define the tr	iggers and preconditions	o for a remote re-energisation.
Proposed Amendme	nt		
Step 1a – One (1) Par	tial SDU per register to notify of change in register	tatus to Current for AMI	meter Re-energisation process
Transaction Definiti	on NMIStandingDataUpdateNotificatio	n	
Trigger	Change in register status.		
Pre-conditions	A NMI is assigned to a current retai	er.	
	Customer nushes button on armed	meter	
	Customer pushes button on anneu	necci	
Post-conditions	The retailer is able to update their s	ystem on the basis of	
Post-conditions	The retailer is able to update their s the information provided by the ne	ystem on the basis of work operator.	
Post-conditions Step 2a – One (1) Par Transaction Definiti	Customer pushes buttom on armed         The retailer is able to update their s         the information provided by the ne         tial SDU to notify of change in meter status to Curre         on       NMIStandingDataUpdateNotification	ystem on the basis of work operator. ent for AMI meter Re-ene	rgisation process.
Post-conditions Step 2a – One (1) Par Transaction Definiti Trigger	Customer pushes button on annea         The retailer is able to update their s         the information provided by the ne         tial SDU to notify of change in meter status to Curre         on       NMIStandingDataUpdateNotification         Change in meter status.	ystem on the basis of work operator. ent for AMI meter Re-ene	rgisation process.
Post-conditions Step 2a – One (1) Par Transaction Definiti Trigger Pre-conditions	Customer pushes buttom on annea         The retailer is able to update their s         the information provided by the ne         tial SDU to notify of change in meter status to Curron         on       NMIStandingDataUpdateNotification         Change in meter status.         A NMI is assigned to a current retai	er.	rgisation process.
Post-conditions Step 2a – One (1) Par Transaction Definiti Trigger Pre-conditions	Customer pushes buttom on armed         The retailer is able to update their s         the information provided by the ne         tial SDU to notify of change in meter status to Curre         on       NMIStandingDataUpdateNotification         Change in meter status.         A NMI is assigned to a current retain         Customer pushes button on armed	ent for AMI meter Re-ene	rgisation process.
Post-conditions Step 2a – One (1) Par Transaction Definiti Trigger Pre-conditions Post-conditions	Customer pushes buttom on annea         The retailer is able to update their s         the information provided by the ne         tial SDU to notify of change in meter status to Curre         on       NMIStandingDataUpdateNotification         Change in meter status.         A NMI is assigned to a current retain         Customer pushes button on armed         The retailer is able to update their s	er. meter. ystem on the basis of work operator. ent for AMI meter Re-ene n er. meter. ystem on the basis of	rgisation process.
Post-conditions Step 2a – One (1) Par Transaction Definiti Trigger Pre-conditions Post-conditions	Customer pushes buttom on annea         The retailer is able to update their s         the information provided by the ne         tial SDU to notify of change in meter status to Curre         on       NMIStandingDataUpdateNotification         Change in meter status.         A NMI is assigned to a current retain         Customer pushes button on armed         The retailer is able to update their s         the information provided by the ne	ent for AMI meter Re-ene n er. meter. ystem on the basis of work operator.	rgisation process.
Post-conditions Step 2a – One (1) Par Transaction Definiti Trigger Pre-conditions Post-conditions Step 3a – One (1) Par	Customer pushes buttom on annea         The retailer is able to update their s         the information provided by the ne         tial SDU to notify of change in meter status to Curre         on       NMIStandingDataUpdateNotification         Change in meter status.         A NMI is assigned to a current retain         Customer pushes button on armed         The retailer is able to update their s         the information provided by the ne         tial SDU to notify of the status of the NMI is Active	ent for AMI meter Re-ene n er. meter. ystem on the basis of work operator.	rgisation process. ation process.
Post-conditions Step 2a – One (1) Par Transaction Definiti Trigger Pre-conditions Post-conditions Step 3a – One (1) Par Transaction Definiti	Customer pushes buttom on annea         The retailer is able to update their s         the information provided by the ne         tial SDU to notify of change in meter status to Curre         on       NMIStandingDataUpdateNotification         Change in meter status.         A NMI is assigned to a current retain         Customer pushes button on armed         The retailer is able to update their s         the information provided by the ne         tial SDU to notify of the status of the NMI is Active         on       NMIStandingDataUpdateNotification	ent for AMI meter Re-ene n er. meter. ystem on the basis of work operator. for AMI meter Re-energis	rgisation process. ation process.



Pre-conditions	NMI must have an active meter in order to send this
	SDU.
Post-conditions	The retailer is able to update their system on the basis of
	the information provided by the network operator.
Step 4a –Full SDU to notify of	change in standing data created by steps 1-3 for AMI meter Re-e
Transaction Definition	NMIStandingDataUpdateNotification
Trigger	Customor nushos hutton on armod motor
Pre-conditions	customer pushes button on armed meter.
	A NMI is assigned to a current retailer.
Post-conditions	A NMI is assigned to a current retailer. The retailer is able to update their system on the basis of

4.15	Section	4.15 Re-energisation 4.15.2 Subsequent Transactions	Amendment Type	Addition
	Description     Addition to improve clarity of existing process.       Proposed Amendment			
	When the meter is an AMI interval meter, the Meter Data Notification (MDN) will include the full days intervals and will be published in the next BAU NEM12 processing, following mid-night of the energisation date. N.B. These readings will be actuals as the meter will still be recording the profile during the AMI disconnected period			

