

NOARK Statement – SAPN Dynamic Export

Back ground:

South Australia Dynamic Export Technical Guide Back ground: From July 1st, all inverters below 30kVA installed in South Australia are required to have the dynamic export control function. This allows SAPN to remotely ramp down solar systems when requested. All approved products must be listed on either CEC or SAPN approved products list.

NOARK Solution: Inverter with inbuilt cloud-based aggregator

NOARK has developed an advanced cloud-based control method for its inverters. Most compliant models are listed on the CEC Soft Communication Product List under 'Inverter Inbuilt.'

With NOARK export limiting devices integrated into our inverters, no additional equipment is required for customers to meet the emergency backstop requirements.

NOARK 3rd Party Solution: Inverter with ZECO Marshall Gateway mechanism is used for SAPN Dynamic export.

Link: <https://www.datamarshall.au/#/home/compliant-products>

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Back ground:

Retailers requirement from 1st of October 2024:

Ensure using compliant inverter models listed on each DNSP website.

Inverter inverter listed on CEC and each DNSP as ‘inverter inbuilt’ which means no 3rd party meter requested.

Sample like below:

Link: <https://cleanenergycouncil.org.au/getmedia/0d57d2a9-5ebe-4d43-8c1c-88d02f3f04af/inverters-with-scc-2024-12-10.pdf>

NOARK Electrics (Shanghai) Co Ltd	Ex9N-DH	Ex9N-DH-3.6KS-AU (A54777-2 2020)	Inverter Inbuilt
	Ex9N-DH	Ex9N-DH-3KS1-AU (A54777-2 2020)	Inverter Inbuilt
	Ex9N-DH	Ex9N-DH-3KS-AU (A54777-2 2020)	Inverter Inbuilt
	Ex9N-DH	Ex9N-DH-3KS-AU (A54777-2 2020)	Inverter Inbuilt
	Ex9N-DH	Ex9N-DH-6KS-AU (A54777-2 2020)	Inverter Inbuilt
	Ex9N-DH	Ex9N-DH-7.6KS-AU (A54777-2 2020)	Inverter Inbuilt
	Ex9N-DH	Ex9N-DH-8KS-AU (A54777-2 2020)	Inverter Inbuilt
	Ex9N-DH	Ex9N-DH-10KT-AU (A54777-2 2020)	Inverter Inbuilt
	Ex9N-DH	Ex9N-DH-12KT-AU (A54777-2 2020)	Inverter Inbuilt
	Ex9N-DH	Ex9N-DH-5KT-AU (A54777-2 2020)	Inverter Inbuilt
	Ex9N-DH	Ex9N-DH-6KT-AU (A54777-2 2020)	Inverter Inbuilt
	Ex9N-DH	Ex9N-DH-8KT-AU (A54777-2 2020)	Inverter Inbuilt

Also a few 3rd party meter supplier ZECO Marshall gateway can be used for complying referring to CEC and DNSP solution list.

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Appendix A: Accessory selection for Dynamic export

Install Type	TYPE	Inverter Model	Distance from MSB	CT Requirement
Off Grid	Inbuilt CTs	Noark 1ph (5,6,8kW) & Noark 3ph(10,12kW)	x	x
Off Grid	Inbuilt CTs	Noark 1ph (5,6,8kW) & Noark 3ph(10,12kW)	x	x
Off Grid	Inbuilt CTs	Noark 1ph (5,6,8kW) & Noark 3ph(10,12kW)	x	x
On Grid	Inbuilt CTs	Noark 1ph (5,6,8kW) & Noark 3ph(10,12kW)	<10m	y
On Grid	Easton 1ph SDM120CT-M (120A/40mA)	Noark 1ph (5,6,8kW)	>10m	y
On Grid	Easton 3ph SDM630MCT v2 (CT secondary current of 1A/5A)	Noark 3ph(10,12kW)	>10m	y

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Appendix A: Accessory selection for Dynamic export



Eastron 3ph SDM630MCT v2 (CT secondary current of 1A/5A)



Eastron 1ph SDM120CT-M (120A/40mA)



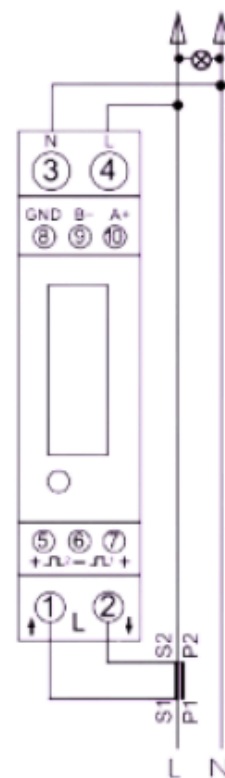
Loose inbuilt CTs with the inverter box

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Connect the reference voltage from the 10A RCBO at point 4 and Neutral to point 3.

Connect the CT references at 1 (White) and 2 (Black)

Note: if you use your own cable for communication cable, please make sure on the energy meter side 9-Blue, 10-Blue/White. On the inverter meter plug side as 4-blue, 5-blue/white.



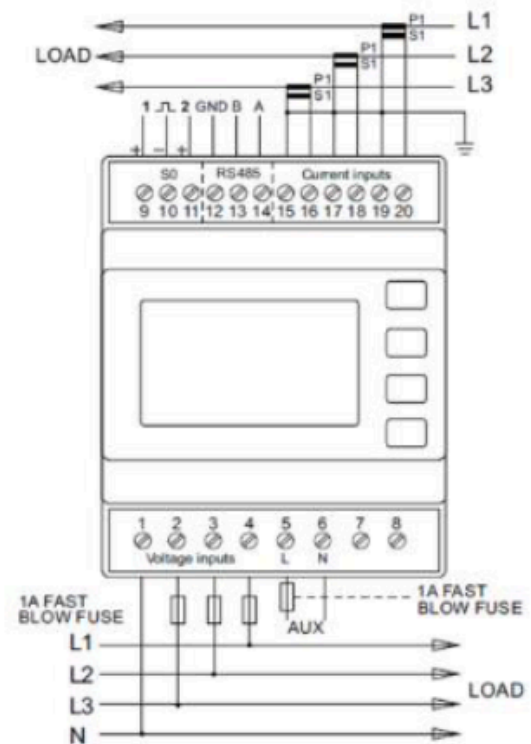
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Connect the reference voltage from the Three Phase 10A RCBO Meter supply at point 2,3,4, & 5 and Neutral to point 1&6. (Bridge between Port 4 (L1) and port 5 (LA). Similarly Bridge neutral between port 1 and port 6)

PHASE A – 4, PHASE B – 3, PHASE C – 2
Neutral 1 & 6

Connect the CT references at
19,20 – Phase A (Black/White, White)
17,18 - Phase B (Black/White, White)
15,16 - Phase C (Black/White, White)

Note: if you use your own cable for communication cable, please make sure on the energy meter side 13-Blue, 14-Blue/White. On the inverter meter plug side as 4-Blue, 5-Blue/White.



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Inverter Cloud Setup

Create system in myNoark.com.au

Step 1: Create a new site in myNoark.com.au as per the standard process

Please input correct site Address & installation Date.

For tracking of system performance it is essential that the correct address and installation date of the system is entered

The screenshot shows a web form titled 'Basic Info' with a progress bar at the top containing five steps: 'Basic Info' (active), 'Add Device', 'Set Tariff', 'Authorisation', and 'Result'. The form fields are as follows:

- Site Type:** A dropdown menu with the placeholder text 'Please select'.
- Site Name:** A text input field with the placeholder text 'Please enter'.
- Installed Capacity:** A text input field with the placeholder text 'Please enter' and a unit label 'kWp' on the right.
- BESS Capacity:** A text input field with the placeholder text 'Please enter' and a unit label 'Ah' on the right.
- State:** A dropdown menu with the placeholder text 'Please select'.
- NMI:** A text input field with the placeholder text 'Please enter'.

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Step 2: Enter Site NMI number

For "Australian National Meter Identifier (NMI)" enter site's 11 x digit NMI number.

The screenshot shows a web form with a progress bar at the top containing five steps: 1. Basic Info (active), 2. Add Device, 3. Set Tariff, 4. Authorisation, and 5. Result. The form fields are as follows:

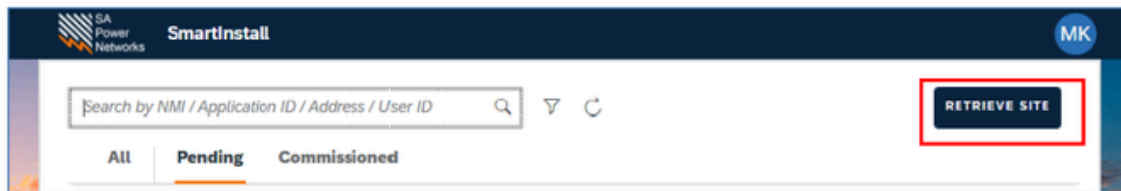
- BESS Capacity:** A text input field with the placeholder "Please enter" and a "Ah" unit selector.
- State:** A dropdown menu with "SA" selected.
- Agent:** A dropdown menu with "SAPN" selected.
- NMI registration to SAPN:** A dropdown menu with "Yes" selected.
- NMI:** A text input field containing the value "20012343564".
- Search For Address:** A text input field with the placeholder "Please enter".

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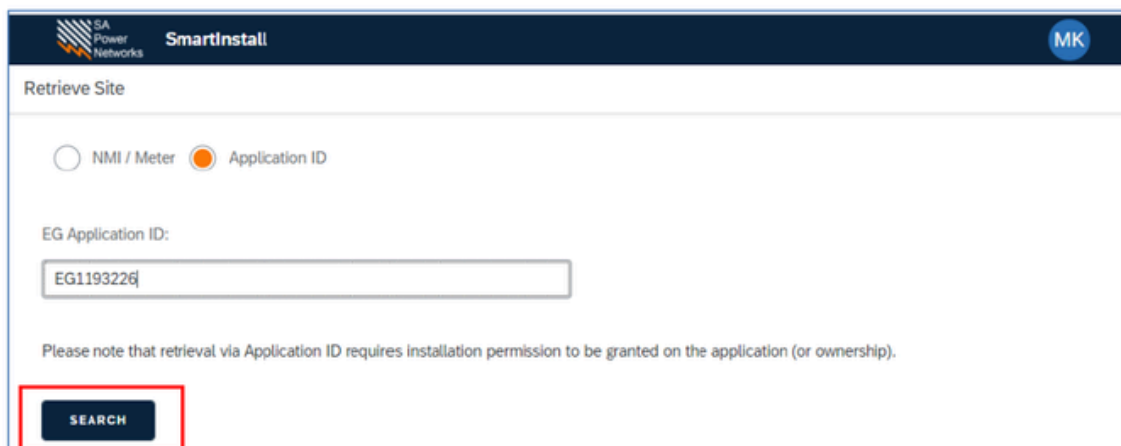
Step 3: SAPN DEVICE REGSITRATION

Close out the LFDI in Smart Install.

Access Smart Install and log in to Retrieve the site either through the EG number or using the NMI and meter number.



The screenshot shows the SmartInstall dashboard. At the top left is the SA Power Networks logo. The main header contains the text 'SmartInstall' and a user profile icon labeled 'MK'. Below the header is a search bar with the placeholder text 'Search by NMI / Application ID / Address / User ID'. To the right of the search bar is a 'RETRIEVE SITE' button, which is highlighted with a red rectangular box. Below the search bar are three tabs: 'All', 'Pending', and 'Commissioned', with 'Pending' being the active tab.



The screenshot shows the 'Retrieve Site' form. At the top left is the SA Power Networks logo. The main header contains the text 'SmartInstall' and a user profile icon labeled 'MK'. Below the header is the title 'Retrieve Site'. There are two radio buttons: 'NMI / Meter' (unselected) and 'Application ID' (selected). Below the radio buttons is a text input field labeled 'EG Application ID:' containing the value 'EG1193226'. Below the input field is a note: 'Please note that retrieval via Application ID requires installation permission to be granted on the application (or ownership)'. At the bottom left of the form is a 'SEARCH' button, which is highlighted with a red rectangular box.

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Confirm the address and click “NEXT”

SA Power Networks SmartInstall MK

Retrieve Site

NMI / Meter Application ID

EG Application ID:

EG1193226

Please note that retrieval via Application ID requires installation permission to be granted on the application (or ownership).

SEARCH

Address:
13 Fake Street, Faketown

Are the address details correct?:

Yes No

EXIT NEXT >

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Step 4: Expand LFDI section

The screenshot shows the 'SmartInstall' interface for a site. At the top, it displays 'Application ID: EG1193226' and 'NMI: 20010056405'. Below this, the 'SITE' section is expanded, showing the following details:

- Address: 13 Fake Street, Faketown
- Connection Type: Single Phase
- Capacity: 8.23 kVA

At the bottom of the site details, there are two expandable sections:

- LFDI**: LFDI Required (indicated by a flame icon). This section is highlighted with a red box.
- EXPORT LIMITING**: Replace (indicated by a flame icon). Below this, it shows 'Fixed (1.5kW / phase)'.

Enter the 40-digit LFDI generated on the site created for the NOARK inverter under station info option

Site filters: All(30) Normal(44) Offline(36) Fault(1) Warning(0) Favourite(0)

Search: Site Name, Address, Postcode or Device | Type | + | List | Card

Status	Site Name	Site Type	Owner	Installed Capacity	BESS Capacity	Real-time Power	Yield Today	Action
●	 Beverly Hill Testing Site 93 Kingsway Beverly Hills NSW 2209	Residential	S***@gmail.com	6.66 kWp	200.00 Ah	752.00 W	6.10 kWh	 

Station Installation Record

Site Name: Beverly Hill Testing Site **Site Type:** Residential

Installed Capacity: 6.66kWp **BESS Capacity:** 200.00Ah


LFDI: 56BD1FFCC... (highlighted with a red box)

State: NSW **Address:** [Redacted]

Agent: Ausgrid **NMI:** [Redacted] **NMI registration to Ausgrid:** No

Owner: S***@gmail.com **Installation Date:** 2023-12-13 10:58:04

Site Image:



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Paste the LFDI and click "COMMISSION" NOTE: without hyphens between the numbers

The screenshot shows the 'SmartInstall' interface for SA Power Networks. At the top, it displays 'Application ID: EG1193226' and 'NMI: 20010056405'. Under the 'SITE' section, the address is '13 Fake Street, Faketown', the connection type is 'Single Phase', and the capacity is '8.23 kVA'. The 'LFDI' section is expanded, showing an input field with the value '1A23D9AF33A8A91223476BE233567AA2F4134B9F' and a 'COMMISSION' button highlighted with a red box. A 'LFDI Required' warning icon is visible in the top right of the LFDI section.

Export capability test

It is a requirement to test the flexible capability of the equipment before the installation can be commissioned.

This will initiate a test export limit being sent to the equipment and then validation of the ability to adhere to the limit. The test normally takes 3 - 5 minutes, but for some technologies it could take longer.

[CANCEL](#)

Time elapsed: 00 hours 09 minutes 22 seconds.



STEP	METER READING
✓ Confirming connection has been made. Site online	
✓ Confirming adherence to default limit. Limit of -500W to -1700W was met	
✓ Sending test export limit to this equipment. Test export limit sent	
⌚ Confirming adherence to export limit.	-1499W
Removing test export limit.	

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The status of the LFDI section shows as Commissioned. Notice you can change and update the LFDI here

The screenshot shows the 'SmartInstall' web interface for SA Power Networks. At the top, it displays 'Application ID: EG1193226' and 'NMI: 20010056405'. Below this, there is a 'SITE' section with the following details: 'Address: 13 Fake Street, Faketown', 'Connection Type: Single Phase', and 'Capacity: 8.23 kVA'. Underneath the site details is the 'LFDI' section, which shows the status 'Commissioned' with a green checkmark icon. A red box highlights this status. Below the status, there is an input field for the LFDI value containing '1A23D9AF33A8A91223476BE233567AA2F4134B9F' and an 'UPDATE' button.

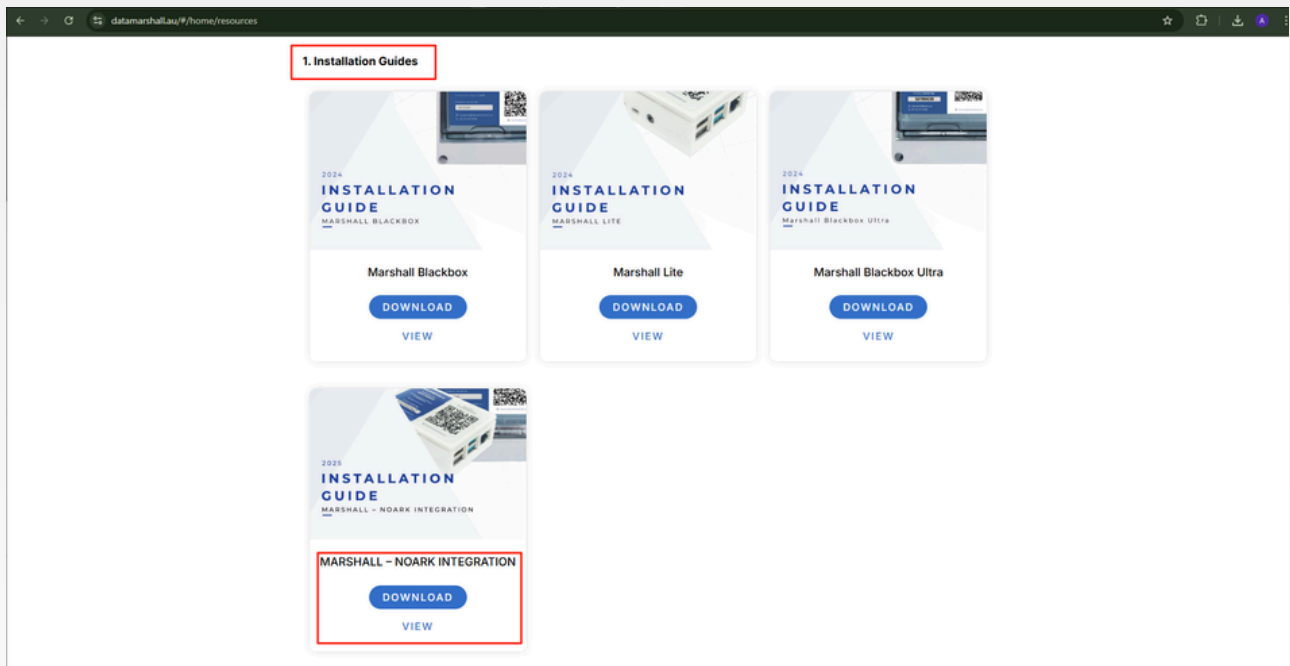
The Flexible Export registration is now complete, you can continue to close out each of the components of the installation in Smart Install.

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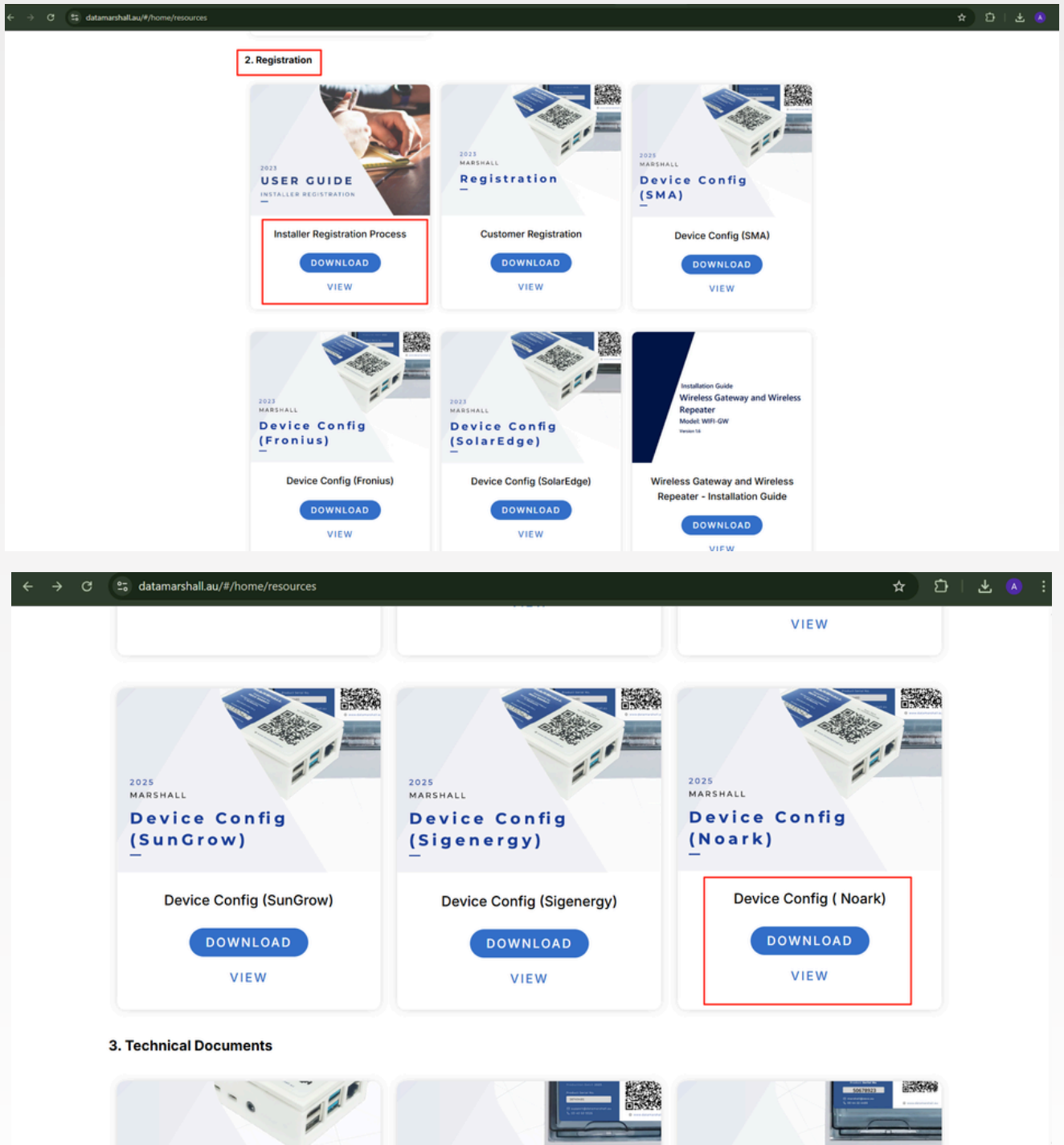
Appendix B: accessory installation and commissioning (Zeco Marshall).

Link:

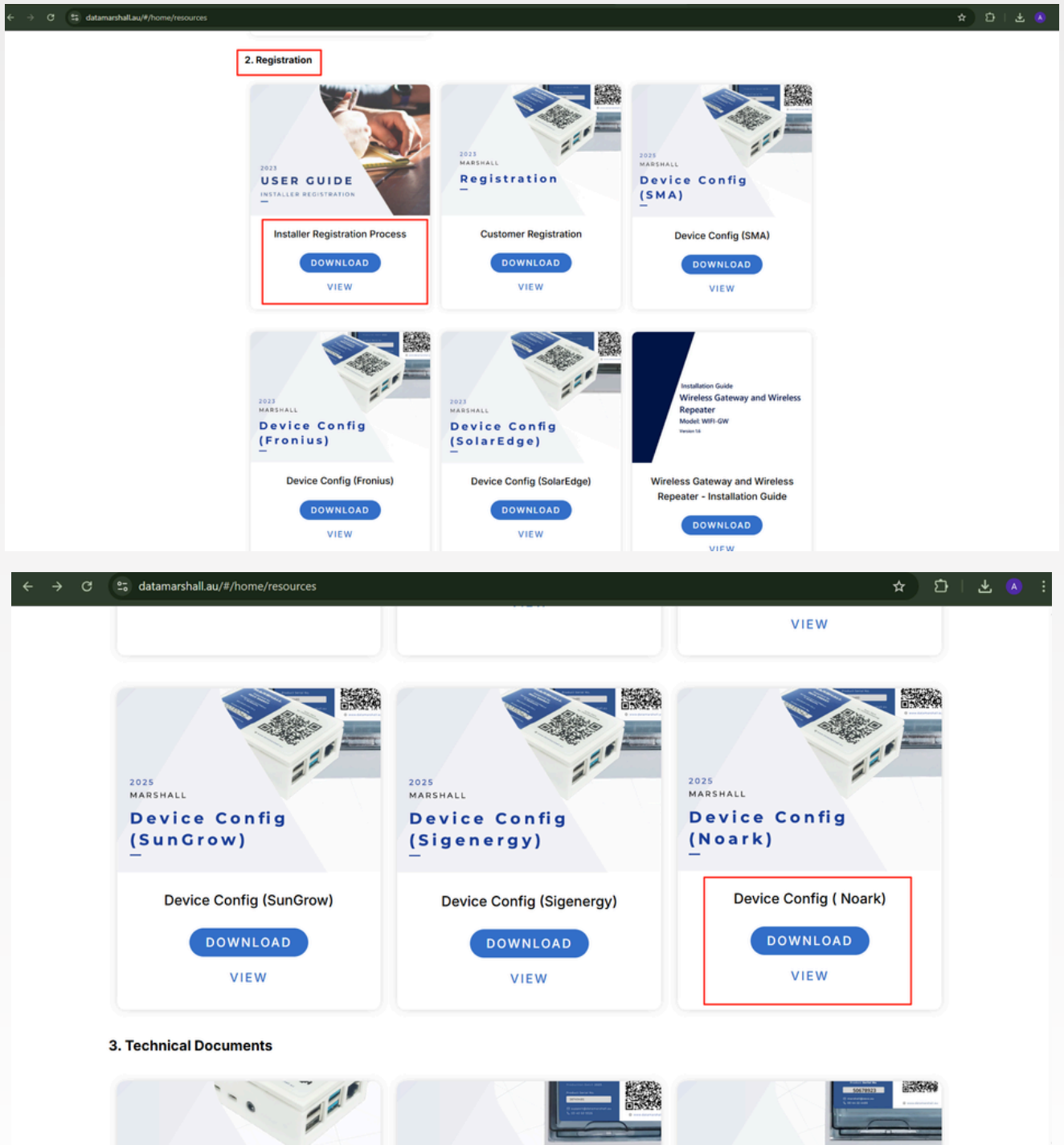
<https://www.datamarshall.au/#/home/resources>



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Contact information:

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