

This technical interpretation notification aims to offer additional clarity to technology providers regarding the process for inclusion on Synergy's supported solutions list (SSL). This interpretation provides guidance in cases where a technology provider supports multiple inverter series and models; and

- some are listed on the Clean Energy Council (CEC) approved inverter list with a software communication client; and
- some are listed on the CEC approved inverter list without an approved software communication client; and
- both those series and models listed with a software communication client, and those without, utilise the same software communication client for the purpose of remote management.

1 Inverter manufacturer (OEM) technology providers

Where an inverter manufacturer (OEM) is the technology provider applying for inclusion on Synergy's SSL and offers both AC-coupled battery inverter systems and hybrid inverter systems, it may apply for listing of its AC-coupled battery inverter(s) on the SSL. Synergy may, at its discretion, approve the application if it considers that the technology provider meets the following criteria:

- The technology provider has another battery inverter model or series that is currently listed on the CEC approved inverter list with a tested software communication client; and
- The client solution used in the tested inverter, listed with a software communication client, is the same solution used in for the currently non-listed AC coupled battery inverter; and
- The technology provider signs an attestation confirming the points above and warrants the performance of the untested inverters software communication client solution; and
- The technology provider signs an attestation to commit to testing of the previously unlisted inverter to qualify for listing on the CEC approved inverter list for inverters with software communication client solutions within a six-month period of listing on Synergy's SSL.

Example 1:

An example company "generic inverter company" has some of its inverters (*Hybrid Inverter, Series A and Series B*) listed as meeting the CEC's software communication client requirements. They also have an AC coupled inverter *AC Coupled Inverter, Series C* which has never been required to undergo testing with SA Power Networks to demonstrate a software communication client. The *Generic Inverter Company* wants to register its *AC Coupled Inverter, Series C* with Synergy for the purposes of meeting the DER functionality requirements.

Table 1: Generic Inverter Company CEC approved inverters

Model / Series	CEC listed	Software Communication Client listed
Hybrid Inverter / Series A	Yes	Yes
Hybrid Inverter / Series B	Yes	Yes
AC Coupled Inverter / Series C	Yes	No

As *Generic Inverter Company* has listed their *Hybrid Inverter* series A and B on the CEC's software communication client list, they can apply with Synergy for listing of their *AC Coupled Inverter* series C, as it uses the same software communication client as their listed inverters.

2 Third-party gateway technology providers

Where a third-party gateway technology provider can communicate with inverter/s that are not currently listed on the CEC approved inverter list with a software communication client, the third-party gateway provider may apply for listing for the inverter/s on the SSL, where Synergy considers (at its discretion) the third-party gateway provider can meet the following conditions:

- The technology provider has achieved listing on Synergy's SSL with its gateway solution and another inverter that has been tested and is currently listed by the CEC as having a software communication client; and
- The technology provider signs an attestation that specifies the OEM, inverter series and inverter models that they are warranting will, in combination with its gateway solution, meet the full set of required capabilities, in the specified time frames including battery storage extensions, as specified in the DER functionality requirements and utility interconnection handbook. The technology provider will, within the specified timeframe in Schedule D of its agreement with Synergy, make available a suitable test device for each OEM for which it has an SSL listing, and successfully complete testing of the full set of capabilities (including battery storage extensions); and
- The technology provider makes a commitment within the attestation that testing of the previously unlisted inverter, in combination with its gateway solution, to achieve listing on the CEC approved inverter list for inverters with software communication client solution will occur within a six-month period of listing on Synergy's SSL.

Example 2:

An example third-party gateway provider company *Third-party Gateway Company* has a battery inverter manufacturer (*OEM 1*) listed on Synergy's SSL through its gateway solution. *Third-party Gateway Company* has two more inverter manufacturers (*OEM 2* and *OEM 3*) that would like to achieve listing on Synergy's SSL utilising the same gateway solution. One OEM has undergone testing with SA Power Networks to demonstrate a software communication client, the other has not.

Table 2: *Third-party Gateway Company* OEMs and current listing status

Manufacturer / Series / Model	CEC listed	Software Communication Client listed	Supported Solutions Listed
OEM 1 / Inverter / 1	Yes	Yes	Yes
OEM 1 / Inverter / 2	Yes	Yes	Yes
OEM 2 / Inverter / 1	Yes	No	No
OEM 3 / Inverter / 1	Yes	Yes	No

The *Third-party Gateway Company* can apply to have both the *OEM 2* and *OEM 3* inverters to be listed on Synergy's SSL under its gateway solution, as *Third-party Gateway Company* has successfully listed *OEM 1* with both the CEC with a software communication client and Synergy. The conditions on listing these battery inverters include warranting that the *OEM1* and *OEM 2* are able to achieve the communication and control requirements as set out in Synergy's utility interconnection handbook.

Noting that *OEM 2* does not have its *Inverter 1* series and model on the CEC inverters with software communication client, *Third-party Gateway Company* is responsible for working with *OEM 2* (as per example 1) to ensure the communication and control requirements can be met prior to listing on Synergy's SSL. *Third-party Gateway Company* makes a commitment that testing of *OEM 2's* inverter, in combination with its gateway solution, to achieve listing on the CEC approved inverter list for inverters with software communication client solution will occur within a six-month period of listing on Synergy's SSL.