Pilot test approach

SCADA Lite

July 2024

Purpose

This document has been prepared by AEMO to share with participants the test approach for the pilot test to be undertaken by **AEMO** and the **selected pilot test** participant from 14 Nov to 4 Dec 2024.

Background

SCADA Lite introduces a low-cost mechanism to support telemetry services that lowers the barriers to entry for non-NSP participants (ie those participants where an NSP facility is not a viable option) and expands AEMO's operational visibility envelope.

SCADA Lite introduces a new service for market participants such as aggregators of small generation and storage units to establish a bi-directional communication path to exchange data with AEMO such that they can participant in the wholesale market.

Specifically, these market participants are Demand Response Service Providers (DRSP) providing Wholesale Demand Response (WDR) and Integrated Resource Providers (IRP) not able to exchange information or controls with AEMO via an NSP.

This new connection type will enable these participants to be observable and/or dispatchable.

The solution will support both cloud-hosted (major Australian cloud providers) and physical infrastructure based non-NSP Participant Intervening Facilities (endpoints).

SCADA Lite will be available to eligible participants for:

- DRSPs seeking to register a WDR unit with >5MW of WDR from a single site/aggregation who do not provide telemetry via an NSP. Refer WDR Guidelines
- IRPs and Generators seeking a transitional connection where their NSP does not support the service.

Pilot Test Approach

Objective

To prove the virtual cross-connect service option (cloud-hosted), using secure DNP 3.0 protocol, to exchange telemetry data and control signals with AEMO.

Approach

The pilot test will be conducted with a single selected participant to prove the service option. Post successful pilot, the service will be available to all eligible market participants after go-live.

Testing will be executed in AEMO's internal TST environment* where DNP 3.0 traffic can be isolated to:-

- Confirm network infrastructure, connectivity and configuration requirements
- Establish and test Advanced Energy Management System (AEMS) exchange of data and control signals via Participant's cloud-hosted network connection.
- Establish and test security in conjunction with a volunteer participant.
- No changes to data models, interfaces/APIs or market systems are required.

Progress Updates

AEMO will provide general progress updates during the period of pilot testing via Implementation Forum

* Preproduction environment or Participant Development Support Environment (PDSE) are not required during the implementation or post go-live.

Post successful pilot test

Technical Guideline

Technical “How-To” Guideline will be made available to Participants, including specific instruction sets for the establishment and configuration of both physical and virtualised end-point scenarios.

Post Go-live

Eligible participants can register for the new SCADA Lite service, for consideration by AEMO, as part of BAU registration process. Data captured via registration will be used to configure and commission the new service.

Further information

Refer to SCADA Lite Industry Readiness Approach on AEMOs SCADA Lite website

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