Daily reporting for Improving Security Frameworks rule change

Fact Sheet

This fact sheet outlines the content of the next-day (Day +1) reporting that the Australian Energy Market Operator (AEMO) will be publishing to fulfil its requirements under the Improving Security Frameworks (ISF) rule, provide information to the market regarding system security service enablement activities, and support settlement of system security service agreements by Transmission Network Service Providers (TNSPs).

While AEMO has taken all reasonable care in the preparation of this document, the information should not be construed as advice.

Note that the report fields provided in this Fact Sheet are indicative only. AEMO makes iterative updates to its EMMS technical specifications as part of implementation; please refer to this documentation for final tables and reporting fields.

What is the ISF Rule?

In March 2024, the AEMC made a final determination on the ISF rule change. The ISF Rule empowers AEMO to assess and enable the necessary security services in operational timeframes to ensure the power system is secure day to day. It addresses system security challenges during the energy transition by reducing reliance on directions and providing better incentives for participants to invest in providing system security in the longer term.

The enablement of security services under ISF will commence on 2 December 2025 in accordance with the Security Enablement Procedures (SEP).

AEMO's ISF implementation

AEMO has planned its implementation process across two main releases to ensure it is able to meet its rule obligations, proactively manage transition risks, and support TNSPs and Providers to progressively transition to new system security enablement arrangements.

In its first release (release 1), AEMO is prioritising solution readiness of participant-facing interfaces, including external user interface and reporting functions to minimise impacts for TNSPs and Providers.

In a subsequent release (release 1.1) in August 2026, AEMO will deliver automated scheduling functions and other non-core components of the solution following the rule commencement date. This release will also include enhancements to reporting, which are detailed in this fact sheet.

Further information on AEMO's ISF implementation is available on the ISF Project webpage.

ISF Rule reporting requirements

Daily reporting

The ISF rule requires AEMO to publish reports on the previous day's enablement outcomes under National Electricity Rule (NER) clause 4.4A.7(a), as follows:

Each day, in accordance with the timetable, AEMO must publish details of each type of system security service, the relevant facilities, the quantity and AEMO's estimate of the cost of that service enabled in the previous day and the reasons for the enablement.

Annual reporting

In addition, under NER clause 4.4A.7(b) AEMO is required to publish an annual report (by no later than 30 September) setting out:

1) *an assessment of the extent to which system security services achieved the minimum system security requirements and stable voltage waveform requirements in the previous financial year;*
2) *the total quantity and estimate of costs of each type of system security service that was enabled in the previous financial year;*
3) *the relevant facilities that were enabled in the previous financial year;*
4) *the reasons for enablement of the system security services that were enabled in the previous financial year; and*
5) *any trends in the enablement of system security services compared with earlier financial years.*

The annual report will not be covered by this fact sheet.

Reporting on system security enablements

Day + 1 reports will include all system security services[1], not only those enabled via AEMO's new System Security Management (SSM) application. This includes transitional services, Network Support and Control Ancillary Services (NSCAS), system strength services and inertia network services.

Typically, reports will reflect services that were enabled on the previous day.

Services that were enabled via the SSM application *and extend for more than one trading day in length* may be included in reporting only on the day after the enablement period has ended. For example, a system strength service enabled in Victoria for 27 to 30 December would be reflected in the 31 December daily report.

Publicly available daily reports

AEMO will publish two daily reports which will be publicly available via NEMWeb and the NEM Wholesale Data Interchange. The approach to the reporting structure reflects consultation feedback highlighting the importance of maximising transparency whilst also balancing the requirements of the ISF Rule and data confidentiality considerations for participating contracts. AEMO has also sought to align the approach to the extent possible with similar reporting arrangements, such as for directions.

Enablement Periods Day +1 Report

This report summarises the system security service types, reasons for enablement and relevant facilities relating to the previous day's enablement activities.

SSM_ENABLEMENT_PERIOD	
INSTRUCTION_ID	Unique Instruction Identifier
DUID	Dispatchable Unit Identifier
ENABLEMENT_START_INTERVAL	The first Dispatch Interval the unit is enabled for SSM Services.
ENABLEMENT_END_INTERVAL	The last Dispatch Interval the unit is enabled for SSM Services.
ENABLEMENT_REASON	Reason for the enablement (field covers both service type and reason for enablement; for example: *System strength – combination; System strength – coefficient; NSCAS; NSCAS – voltage control; Inertia; Transitional service – type 1; Transitional service – type 1 MSL; Transitional service – type 2*)
LASTCHANGED	Last time record was changed.

The total number of facilities enabled may be determined based on how many DUIDs are reported as enabled on a given day.

[1] Refer to 4.4A.2 in the NER.

To assess **enablement quantity** for a given DUID, the user should refer to the security combinations the security service contributes to and the time period of enablement from the Enablement Period Day +1 Report. Constraints may be found in existing constraint tables.[2] The Limits Advice underpinning these constraints is available here.

Enablement Costs Day +1 Report

This report provides information on the total estimated cost of services over a day, aggregated by service type. The costs reported are estimates only and only represent certain elements of the cost of a given enablement. For example, it does not capture all costs associated with a given contract, only those required for AEMO to make enablement decisions. It also relies on an estimate of pool price pass through for energy revenue. Refer to the Security Enablement Procedure[3] for further information.

SSM_ENABLEMENT_COSTS	
END_TRADINGDATE	Trading Date of the end of the enablement
ENABLEMENT_REASON	Primary Service type associated to the DUID.
ESTIMATED_COSTS	Cost estimation for the service type.
LASTCHANGED	Last time record was changed.

Treatment of always-on contracts in publicly available daily reporting

Some system security service agreements will relate to assets that provide an 'always-on' service. This service type does not require active day-to-day enablement by AEMO, is expected to incur costs that are largely fixed by nature, and is assumed to be providing the contracted service unless on an outage.

As such, AEMO will include details of always-on services in its annual report rather than via daily reporting. AEMO will also provide a list of always-on contracts for reference to ensure completeness.

Release 1.1 enhancements

As described in the Security Enablement Procedure, AEMO will introduce an additional report in mid-2026 covering an indicative regional (forecast) schedule.

Reporting available to TNSPs & Providers

In release 1, AEMO will publish three reports accessible to participating TNSPs and Providers, with a further report becoming available in release 1.1. TNSPs and Providers will also receive enablement instruction reports notifying that it has been enabled to provide a contracted system security service. These reports are available in the Participant Data Model report and the Markets Portal.

Final Day +1 Schedule Report

This report provides detail on the previous day's enablements for each relevant DUID. In combination with contract cost structure and other data accessible to TNSPs relating to their contracted assets (e.g. bids, SCADA data), the Final Day +1 Schedule Report provides the information required to support TNSP settlement of payments for enabled services. Although AEMO will be monitoring service provision for the purpose of maintaining system security, AEMO is not in a position to assess whether a service was fulfilled in accordance with contracted arrangements. This will need to be assessed independently by the TNSP.

SSM_SCHEDULE	
INSTRUCTION_ID	Unique Instruction Identifier
CONTRACT_ID	Unique Contract Identifier used to create enablement.

[2] From August 2026, system security service constraints will also be viewable.

[3] Security Enablement Procedures consultation: https://www.aemo.com.au/consultations/current-and-closed-consultations/security-enablement-procedures

DUID_PARTICIPANTID	Primary recipient (SSM Service Provider)
TNSP_PARTICIPANTID	Participant ID of TNSP if contract procurer is TNSP.
DUID	Dispatchable Unit Identifier
UNIT_COUNT	Number of sub-units within a DUID that are required for enablement.
EQUIPMENT_TYPE	Dispatchable Unit resource (for example, GENERATOR, LOAD, BIDIRECTIONAL, SYNCHRONOUS CONDENSER).
SERVICE_TYPE	Requested Service to provide.
MIN_DISPATCH_MW	Minimum Dispatch Target required for DUID to enable the contract.
START_INTERVAL_ DATETIME	The first Dispatch Interval of the enablement.
END_INTERVAL_ DATETIME	The last Dispatch Interval of the enablement.
LASTCHANGED	Last time record was changed.

Scheduled Contract Unit Availability Report

The Contract Unit Availability Report provides a summary of service availability information changes submitted by Providers, and is released when availability has changed.

SSM_CONTRACT_UNIT_AVAIL	
CONTRACT_ID	Unique Contract Identifier
DUID	Dispatchable Unit Identifier
INTERVAL_ DATETIME	The starting Dispatch Interval for the availability change. This will be the active availability until the next INTERVAL_DATETIME record for this Contract and DUID.
VERSION_ DATETIME	Effective Date and Time of this record.
AVAILABLE	Indicates if DUID is available for the INTERVAL_DATETIME (1 = True, 0 = False).
UNIT_COUNT	Number of sub-units within a DUID that are available for enablement.
ACTIVATION_LEAD _TIME	The expected maximum lead time for the system security service to be enabled from a non-operational state in minutes.
MIN_DISPATCH_ MW	Minimum Dispatch Target required for DUID to enable the contract.
MIN_ENABLEMENT _DURATION	Minimum duration a unit must be active to enable the contract in minutes.
LASTCHANGED	Last time record was changed

Scheduled Availability Report (retrospective - weekly)

The weekly Scheduled Availability Report provides a retrospective report on the availability submitted for a given DUID over the previous seven days.

SSM_SCHEDULED_AVAILABILITY	
CONTRACT_ID	Unique Contract Identifier
DUID	Dispatchable Unit Identifier
AVAILABLE_START_INTERVAL	The first Dispatch Interval the unit is available.
AVAILABLE_END_INTERVAL	The last Dispatch Interval the unit is available.
TNSP_PARTICIPANTID	TNSP Participant ID
LASTCHANGED	Last time record was changed.

Release 1.1: Indicative Rolling DUID Schedule Report

AEMO will make an Indicative Rolling DUID Schedule Report available in Release 1.1 to relevant TNSPs and Providers. The report will provide an indicative forecast of upcoming enablements over the pre-dispatch period. The fields provided in the table below are indicative only and will be confirmed as part of release 1.1.

Indicative Rolling DUID Schedule Report fields
DUID
Service provider participant ID
Contract ID
Target energy in MW
Equipment type (*LOAD, GENERATOR, BIDIRECTIONAL, SYNCHRONOUS CONDENSOR*)
ISF status (*Scheduled, Instruction Sent, Fulfilment, Fulfilment Failed*)
Start and end date/time of the DUID State entry
Unit activation lead time
Minimum enablement duration for the service

Fact Sheet

Where can I find more information?

More information on AEMO's ISF Rule implementation project is available here.

Please direct any ISF-related questions to NEMReform@aemo.com.au.

Further support is also available via AEMO's Support Hub:

- support.hub@aemo.com.au
- 1300 236 600