

Market Trial

168-Hour Operations Procedure

I-SEM Market Trial

Version 2.0

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Glossary of Terms

Acronym / Term	Definition
AoLR	Agent of Last Resort
AU	Assetless Units (Assetless Traders)
BM	Balancing Market
CCC	Coordinated Capacity Calculation
CCQT	Communication Channel Quality Testing
CM	Capacity Market
DAM	Day-Ahead Market
D-Gen	Dispatchable Generation
DSU	Demand Side Unit
ECC	European Commodity Clearing
EDIL	Electronic Dispatch Instruction Logger
FTR	Financial Transmission Rights
ICO	Interconnector Owner
IDA	Intraday Auction
IDAC	Intraday Auction Coupled
IDAL	Intraday Auction Local
IDC	Intraday Continuous Trading
IDM	Intraday Market
I-SEM	Integrated Single Electricity Market
JAO	Joint Allocation Office
MDP	Meter Data Provider
MO	Market Operator
NEMO	Nominated Electricity Market Operator
O-Gen	Other Generating Units (including wind, Solar etc.)

Acronym / Term	Definition
PEMR	Participant Engagement and Market Readiness (TSOs' I-SEM Project work stream)
PIT	Participant Interface Testing
RAs	Regulatory Authorities
SEMO	Single Electricity Market Operator
SEMOpx	Single Electricity Market Operator Power Exchange
SO	System Operator
SUP	Suppliers
TSO	Transmission System Operator
Trial	The I-SEM Market Trial
WEF	Wind Energy Forecast

1. Introduction

1.1 Purpose of this Document

This procedure describes a coordinated plan of action among participants to trial the I-SEM business processes (using trial systems and environments) as close as possible to the expected operations after go-live.

The 168 Hour metric, measures the stable operations of the I-SEM business processes, systems and market outputs against a defined set of criteria (the 168 Hour Scorecard) on a daily basis. The 168 Scorecard is included as Appendix A. To successfully complete the 168-Hour trial, the 168-hour metric must be achieved for seven consecutive days.

This procedure establishes the conduct of operations by the central market operators and market participants to verify the successful completion of the 168-Hour trial as required by Market Trial Participant Guide.

Successful completion of the 168-Hour Operations Trial should demonstrate the robustness of the I-SEM, processes, systems and market outputs. Successful Completion of the 168-Hour Operations Trial is a key indicator of the readiness of the I-SEM systems and procedures to go-live.

1.2 Scope of 168-Hour Operations Trial

Successfully achieving the 168-Hour Operations Trial requires the full scope of market and non-market systems, and operations that may occur during this period within the constraints of the market trial environment and vendor support contracts. There will be no scripted activity for this component of the trial and therefore not all events that may occur during day-to-day operations will necessarily be encountered during the 168-Hour window (for example, a new unit registration may be initiated during this window but may not complete until after the window has closed). As a minimum the following core activities will be addressed each day during this 168-Hour trial period:

Application	Functionality	Core Activity
SEMOpX	Connectivity	Type 2 available throughout
SEMOpX	Connectivity	Type 3 available throughout
SEMOpX	Day-ahead market	Auctions run to schedule
SEMOpX	Day-ahead market	Reports Published & Verified
SEMOpX	Intraday Auction - 1	Auctions run to schedule
SEMOpX	Intraday Auction - 1	Reports Published & Verified
SEMOpX	Intraday Auction - 2	Auctions run to schedule
SEMOpX	Intraday Auction - 2	Reports Published & Verified
SEMOpX	Intraday Auction - 3	Auctions run to schedule
SEMOpX	Intraday Auction - 3	Reports Published & Verified
SEMOpX	Intraday Continuous	Continuous Trading Available
SEMOpX	Intraday Continuous	Reports Published & Verified

Application	Functionality	Core Activity
Balancing Market	Long-term Schedule	Feasible output, Running as Scheduled
Balancing Market	Real-time Commitment	Feasible output, Running as Scheduled
Balancing Market	Real-time Dispatch	Feasible output, Running as Scheduled
Balancing Market	Imbalance Pricing	Running as Scheduled
Balancing Market	Reports	Published as Scheduled
Settlements	Indicative Trading	Running and Published as Scheduled
Settlements	Initial Trading	Running and Published as Scheduled
Settlements	Indicative Capacity	Running and Published as Scheduled
Settlements	Initial Capacity	Running and Published as Scheduled
Settlements	Credit Management	Running and Published as Scheduled
Settlements	Settlement Documents	Published as Scheduled

These activities will be monitored throughout the 168-Hour Trial against the 168-Hour Scorecard and will be published each day.

The following activities, which may or may not occur during a 168-Hour window, should be trialed during Scenario 7 in order to commence live operations:

Activity	Rationale
Unit Registration (SEMO & SEMOpX)	At least one new unit must be made effective in the market
Funds Transfer	The capability to transfer funds (€1 & £1) between banks
Issuance of Dispatch Instructions	The capability to issue valid dispatch instructions
Update to Technical Offer data	The capability to review and update Technical Offer Data
Market Operator Invoice	The capability to produce a Market Operator Invoice
Cross Border Monthly Capacity Data	REPT_071 - Cross Border Monthly Capacity Data
Settlement Re-Allocation	The capability to register and apply settlement re-allocation
Unit Under Test	Trial of Unit Under Test functionality
Cross Zonal trading	The capability to execute Cross Zonal Trading
Difference Payments & Charges	The capability to calculate and publish Difference Payment & Charges

1.3 Overview of 168-Hour Operations Trial Procedure

During the 168-Hour Operations Trial, participants will continue to conduct actual market operations and settlement in accordance with the current SEM rules.

As part of I-SEM Market Trial Scenario 7 (Unscripted Parallel Operations), participants will conduct an operational readiness trial of I-SEM systems and processes. The 168-Hour Operations Trial is a rehearsal of the I-SEM Day-Ahead Market, Intraday Market, Balancing Market and Settlements (consistent with scope defined above in section 1.2) during a continuous 168-Hour period.

The 168-Hour Operations Trial requires the functions outlined within section 1.2 to operate without Severity 1 or Severity 2 incidents for 168 continuous hours.

A description of the severity levels is as follows:

Severity Level	Description
Severity 1 – Urgent (Priority - Critical)	<p>Trial is stopped: the Trial cannot proceed until the issue is resolved. The variance will result in a failure of the market.</p> <p>All Trial activities will be stopped until the variance is resolved. The variance will be communicated immediately to the Trial Participants and prioritised with the I-SEM Programme and the relevant IT vendors as needing immediate resolution.</p>
Severity 2 – High (Priority - High)	<p>Variances materially impact the operation of a key market function and cannot be resolved without a viable workaround. The affected function cannot continue as part of the Trial without the workaround being implemented.</p> <p>These variances indicate the failure of important market functions or processes. The issue will be communicated to the Trial Participants as soon as possible. Conditions and functions impacted by the variance will be removed from the Trial activities until resolved or a workaround is put in place.</p>
Severity 3 – Medium (Priority - Medium)	<p>Variance produces inaccurate or unexpected results for a key market function and the impact on the Trial is immaterial. The issue can be addressed by a workaround. The Trial can continue and the variance will be evaluated and corrected as appropriate.</p> <p>These variances indicate that an issue in a key function that must be resolved but can be addressed effectively using a workaround. The issue will be communicated to Participants at the next scheduled call. The Trial can continue with the understanding that expected Trial results may vary.</p>
Severity 4 – Low (Priority - Low)	<p>Identifies an issue that needs to be addressed, but not before Market Go-Live. These variances include items that do not materially affect the usability or outcomes of the market functions such as a cosmetic error.</p> <p>A variance has been identified but does not need to be addressed immediately. Such variances, where they impact Participants, will be communicated at the next scheduled</p>

Participants will receive financially non-binding settlement statements for the day-ahead, intraday and balancing markets for each completed operating day of the 168-Hour Operations Trial. Settlement Documents will follow the defined settlement timings and therefore Settlement Documents for prior operating days will be received during the 168-hours. To simulate settlement statements and reports, reports available for each operating day will be based on the results of:

- Trial day-ahead markets operated by SEMOpX
- Transaction data (for example physical notification and commercial offer data) submitted by participants
- Calculated dispatches and imbalance prices from the trial balancing market and actual generation meter data from the Meter Data Providers

Note: The reports available to Participants will be dependent on market actions, e.g. a Reallocation report would not be available unless a reallocation agreement has been lodged.

Participants shall review the test settlement statements and reports for errors and provide feedback to the market trial team for resolution.

The objectives of the 168-Hour Operations Trial include:

- Exercising of business processes for market operators, system operators and participants (consistent with the scope defined in section 1.2)
- Exercising of integration to all non-market systems
- Exercising of the I-SEM systems and reports
- Confirming that I-SEM systems produce outcomes and data consistent with inputs and known defects
- Confirming participant interfaces to I-SEM systems

The market trial team and participants will work closely to assure a successful I-SEM trial while minimising project risk; assuring the reliability of the computer systems, and exercising participant interfaces to I-SEM. Participants should expect that this 168-Hour Operations Trial will require additional effort, work hours outside of 9am-5 pm and additional labor costs to support trialing efforts.

During the 168-Hour Operations Trial, all outputs of the I-SEM system are for trialing purposes only and at no times should be acted on by participants to manage production activities within the current SEM market.

1.4 Updates to 168-Hour Operations Trial

This procedure presents the current state of information regarding the 168-Hour Operations Trial at the time of publication. If material changes occur during the Trial, the procedure will be updated to reflect those changes and republished.

Whenever the procedure is updated, the revised version will be sent to Market Trial Coordinators, together with a covering email explaining the changes. Updates to the procedure will also be highlighted during the daily conference calls with Market Trial Coordinators.

The latest version of the 168-Hour Operations Trial procedure will be available on the SEMO website.

1.5 Participation

To take part in the Trial all Participants must have completed the I-SEM Programme Market Trial Registration process for the relevant markets and have successfully completed Communication Channel Qualification and Participant Interface testing and signed the Market Trial Agreement.

All Participants should have appointed a Market Trial Coordinator with whom the Market Trial Team will primarily interact throughout the course of the Market Trial and 168-Hour Operations Trial. As outlined in the Market Trial Participant Guide, the Market Trial Coordinator will be responsible for disseminating all Trial information and material within their respective organisations and coordinating their organisations Trial activities. They will also be expected to participate in all scheduled teleconferences and meetings during the Trial and channel all required trial information from their organisation to the Market Trial Team.

2. Entry and Exit Criteria

2.1 Entry Criteria

The 168-Hour Operations Trial will encompass the core market and system operations procedures as outlined in section 1.2 including:

Criteria	Description
System Access	Participant validate access to I-SEM systems (for example confirm certificates, URL connections)
Defects	Market Trial Team confirms that all known Severity 1 defects identified in testing activities have been resolved Market Trial Team presents a plan to resolve or implement a viable workaround for all known severity 2 and 3 defects
Functionality	Market Trial Team provides a list of any functionality expected to be operational after go-live that will not to be included as part the 168-Hour Operations Trial
Readiness Metrics	Market Trial Team confirms that all criteria defined within the 168-Hour Scorecard have been successfully met
Declaration	Market Trial Team, in collaboration with participants, declares the systems and processes ready for the start of 168-Hour Operations Trial

2.2 Exit Criteria

The following criteria must be completed to exit the 168-Hour Operations Trial.

- 168 hours of continuous I-SEM systems trial (as outlined in section 1.2) has been completed without encountering any new Severity 1 or 2 Incidents
- Market Trial Team provides a 168-Hour Scorecard to Participants outlining the successful completion of the 168-hour trial processes
- Market Trial Team provides a plan to resolve any Participant comments on any publications for the period covered by the successful 168-Hour Operations Trial
- Market Trial Team provides a plan to address any new Severity 3 or Severity 4 Incidents that arise during the 168-Hour Operations Trial

2.3 168-Hour Operations Scorecard

A Scorecard that details by capability the criteria that will be monitored daily to determine whether a specific failure event would trigger a potential restart of the 168-Hour operations is included as Appendix A.

Should a restart of 168-Hour operations be required, this will take into account at what stage the event triggering the restart occurred and what point in time the 168-Hour operations can restart. For example if the restart is due to an early order book closure for the DAM, outside the defined tolerance, resulting in insufficient time for participants to enter their offer data, but all subsequent processes and functions have run without incident the restart point should be from immediately following the DAM failure.

The full Scorecard is provided in Appendix 'A' of this document and will cover the key functionality of the process areas defined in section 1.2 above.

Any failure event outside of the specified tolerances will be assessed continuously throughout the 168-Hour operations and depending on the number of failure events (multiple occurrences, multiple events or a combination of both) a decision will be taken as to whether a restart of the 168-Hour operations is required.

3. Data and Systems for 168-Hour Operations Trial

In the 168-Hour Operations Trial the IT environment will be dependent on real time conditions and there are no enforced restrictions on Participants when submitting bids and offers. There is an expectation that Participants will act as they would in live market operations. It is recommended, where practicable, Participants reflect their strategies in both the current market arrangements and the I-SEM market trial systems. The level of activity of Participants will not be specified.

3.1 Data

The I-SEM market trial systems and processes will be subject to real time data feeds throughout the 168-Hour Operations Trial and therefore participants will be expected to participate in this trial by providing data inputs that are consistent with real time conditions (i.e. shadowing current live SEM operations). Any variance in data submissions from real time conditions will impact on the balancing market and potentially result in deviations in scheduling, and therefore impacting downstream processes such as imbalance pricing and settlement.

The Market Trial team will monitor activity and provide feedback and suggested explanations of any notable anomalies witnessed during this 168-hour operations trial.

To increase the value of the 168-Hour Operations Trial, the data sets to be used will reflect EirGrid's assessment of production quality data. Specifically:

- The Energy Management System (EMS) is the live application throughout the duration of the 168-hour trial.
- Outages, dispatch and constraints will be a combination of the current SEM energy management system and the market trial dispatch instruction system
- Registration data in the market trial environment will be used as the source for participant registration information during the 168-Hour Trial
- SEM load forecast information will be used for the duration of the 168-Hour Trial
- The day-ahead market and intraday auctions (2 of the 3 IDAs) are coupled for allocation of cross-border capacity and will use the market trial environment
- Balancing Market Commercial Offer Data will be submitted by participants in line with their own trading strategies. Where no commercial offer data is received then the default standing data will be utilised
- Physical Notifications must be submitted by relevant participants for all dispatchable generation. There is no default standing data for Physical Notifications

3.2 Systems

The I-SEM market trial systems are expected to be available throughout the 168-Hour Operations Trial with any planned outages being communicated in advance. Where an outage occurs during the 168-Hour Trial, this will be supported by contingency and fail over processes. If this results in a notable period of system failure that impact on participant's capability to trade then it may be necessary to restart the 168-Hour Operations Trial.

4. 168-Hour Operations

The I-SEM systems will be under production level change control procedures during the 168-Hour Operations Trial. With the exception of planned releases, and incidents managed through post go-live incident management procedures, no software changes to I-SEM systems will be implemented during the 168-Hour Operation Trial without stopping and commencing a new 168-Hour Trial.

Measurement of 168-Hour metric commenced with the start of Scenario 7, on March 20, 2018.

During the 168-Hour Operations Trial, applicable I-SEM systems will be managed as if the systems were fully in production 7x24, exercising similar procedures as those used for current SEM production operations to implement software updates, manage incidents and data base changes. Changes to I-SEM systems that impact participants will require re-starting the 168-Hour Trial at a mutually agreeable time sufficient to allow participants to implement any necessary changes. Participants will be notified of any changes in the I-SEM systems during the 168-Hour Operations Trial.

4.1 I-SEM systems change control

Production standard change control procedures will apply to the I-SEM systems during the 168-Hour trial including the following:

- server and desktop operating systems
- security changes
- application patches
- network changes
- storage changes
- user access changes

New functionality that was not deployed at the commencement of a 168-Hour Trial may not be introduced without re-starting the 168-Hour Operations Trial period. Planned code releases and software patches for existing applications are adjustments to existing functions and not considered new functionality. Software modifications intended to fix incidents in functionality found during the 168-Hour Trial may be made with the understanding that this action may be re-starting the 168-Hour Operations Trial period. Every effort will be made to ensure that technical specifications, operating systems and security systems remain as is during the 168-Hour Trial.

Failures of physical hardware such as servers, network routers, storage etc. that effect operations functionality will be cause to re-start the 168-hour operations trial if redundancy and fail-over is not successful

4.2 Participant system change control

Participants should apply change control procedures during the 168-hour Trial. Participants should consider managing their I-SEM systems as production, exercising the same procedures used for production operations to implement software updates and database changes.

4.3 168-hour operations procedures

The day prior to the commencement of 168-Hour Operations Trial, SEMOpx will run a trial day-ahead market for the next operating day. EirGrid shall conduct a trial of the I-SEM systems software and operating procedures consistent with the scope defined in section 1.2, and simulate real time dispatch of the power grid to emulate the actual operation of the I-SEM systems.

Day-ahead market results from the prior DAM are acceptable to be used for the current Operating Day if the re-start of the 168-hour trial only involves the balancing market systems and data.

I-SEM Market 168-Hour Operation Trial

Where severity level 1 or 2 incident relates only to the Day-ahead market, EirGrid may not need to re-start the 168-Hour Operations Trial subject to the following conditions:

- Day-ahead market incidents are corrected prior to the DAM Order Book Closure of the same day – then EirGrid may not need to re-start the 168-Hour Operations Trial and can run the day-ahead market at the DAM Order Book Closure of the same day
- Day-ahead market incidents cannot be corrected prior to the DAM Order Book Closure of the same day – then the incident must be resolved and a re-start of the 168-hour operations trial will be required beginning at midnight the next Operating Day after incident resolution.

4.4 168-hour operating principles

EirGrid and participants will operate their I-SEM systems to support the performance of the 168-hour operations trial. The operational requirements are aimed at operating I-SEM as at go-live (except for generation dispatch instructions), such that any incidents are identified and resolved quickly to re-start the 168-hour if necessary. The following describes the 168-hour operations trial requirements:

Entity	Requirement
TSOs, SEMO and SEMOpX	<ul style="list-style-type: none">• Scheduling, dispatch, market, settlement and reporting processes (where possible) will execute in accordance to I-SEM market time schedule.• Day-ahead auction and intraday auctions 1, 2 and 3 will be executed.• Staff appropriately trained to execute market and system operations tasks 24/7.• Day-ahead and intra-day market outcomes are based on market participant inputs into the trial environments for ETS, EUPHEMIA and M7 and are not reflective of production outcomes• Trial outcomes may not represent post I-SEM go-live results. Balancing market and schedule and dispatch outcomes are based on real-time data from the current SEM systems, all schedules will be linked to the state of the 'real' power system.• Trial dispatch instructions will not be issued to participants. Units will continue to respond to SEM dispatch instructions.• Initial and indicative settlement statements, settlement documents for participants registered to participate in I-SEM to be produced in accordance with the settlement timelines in the trading and settlement code and will be internally consistent.
Participants	<ul style="list-style-type: none">• Provide physical notifications in line with the Trade and Settlement Code requirements• Provide Forecast Availability reflecting real time conditions• Provide Commercial Offer Data and Validated Technical Offer Data• Should ensure that all resources are in place to support As-Live operations

5. Communications and Logistics

Keeping Participants, and other relevant stakeholders, fully informed and involved in all aspects of the 168-Hour Operations Trial as it unfolds continues to be important to the success of the Trial. The market trial team will use the established regular meetings of Market Trial coordinators held via telephone conference during the course of the 168-Hour Operations Trial.

The coordination and communication process is designed to assist in ensuring that all relevant stakeholders have the latest information upon which to act, and to help maximise the value gained from the Trial.

- Daily Briefing (morning and afternoon)
- Weekly Briefing

Details of each of these two meetings are contained in the table below:

	Daily Briefings	Weekly Briefing
Frequency	Daily, (Morning and Afternoon)	Weekly (Normally Friday)
Duration	15-30 minutes twice daily	Duration: 30-60 minutes
Purpose	Morning – Planning and direction for days activities Afternoon - Quick, timely briefing and discussion of any issues from that day's Trial activity.	Review previous week's activities, status reports, actions and issues. Planning next week's events and confirming calendar for next week and highlighting any changes.
Invitees	Market Trial Coordinators (and alternates)	Market Trial Coordinators (and alternates)
Channel	Teleconference	Teleconference

Throughout the 168-Hour Operations Trial, the Market Trial Team will be performing analysis of the I-SEM systems to identify any issues or Incidents. On the daily conference calls, the Market Trial Team will inform participants of newly-discovered problems and resolutions to previously-announced issues.

The Market Trial Team will post, weekly, a summary of all outstanding software and hardware issues reported, and maintain a summary listing of relevant defects along with the related resolution plans and timelines. Progress of the 168-Hour Operations Trial and requirements for weekend operations will be discussed on the weekly conference calls.

The Market Trial Team will present status and summarise any problems with completing the 168-Hour Operations Trial to the Market Trial Coordinators meetings.

6. Appendix ‘A’ – Market Trial – 168 Hour Scorecard

The following table provides the full scorecard that will be used to monitor the progress of the 168 hour trial and provide evidence for either continuing or restarting the trial

ID	Market	Type	Details	Daily Target	Daily Tolerance
ISEM_1	Bal. Mkt	Systems	No new Sev 1 Incidents encountered	0	0
ISEM_2	Bal. Mkt	Systems	No new Sev 2 Incidents encountered that materially impact the market	0	0
ISEM_3	Bal. Mkt	Systems	T3 API availability for participant and MO interactions	95%	5%
ISEM_4	Bal. Mkt	Systems	Market Participant Interface availability for participant and MO interactions	95%	5%
ISEM_5	Bal. Mkt	Systems	Operator Interface availability for operation	95%	5%
ISEM_6	Bal. Mkt	Process	Balancing Market gate timings	100%	+/- 15mins
ISEM_7	Bal. Mkt	Process	System production of 5 minute imbalance price	288	24
ISEM_8	Bal. Mkt	Process	System production of 30 min imbalance price (incl. backup price)	48	0
ISEM_9	Bal. Mkt	Process	Scheduling	n/a	n/a
ISEM_10	Bal. Mkt	Process	Dispatch	n/a	n/a
ISEM_11	Bal. Mkt	Reports	Website Reports	95%	5%
ISEM_12	Bal. Mkt	Reports	MPI Reports	95%	5%
ISEM_13	All	Systems	No new Severity 1 Incidents Encountered	0	0
ISEM_14	All	Systems	No new Sev 2 Incidents encountered	0	0
ISEM_15	DAM / IDA	Systems	T3 API Available for ETS Participant Interactions (excl. planned outages)	95%	0
ISEM_16	DAM / IDA	Systems	ETS Participant Interface availability for participant interactions (excl. planned outages)	95%	0
ISEM_17	IDC	Systems	T3 API Available for M7 Participant Interactions (excl. planned outages)	95%	0
ISEM_18	IDC	Systems	M7 Participant Interface availability for participant interactions (excl. planned outages)	95%	0

ID	Market	Type	Details	Daily Target	Daily Tolerance
ISEM_19	DAM	Process	Gate Closure on Schedule	100%	+/- 15mins
ISEM_20	DAM	Process	Auction Runs to market rules	100%	n/a
ISEM_21	DAM	Process	Final Results publication on Schedule	within 60 minutes	0
ISEM_22	DAM	Participation	Participant Submissions of Bid/Offer Data	n/a	n/a
ISEM_23	IDA1	Process	Gate Closure on Schedule	100%	+/- 15mins
ISEM_24	IDA1	Process	Auction Runs to market rules	100%	n/a
ISEM_25	IDA1	Process	Final Results publication on Schedule	within 60 minutes	0
ISEM_26	IDA1	Participation	Participant Submissions of Bid/Offer Data	n/a	n/a
ISEM_27	IDA2	Process	Gate Closure on Schedule	100%	+/- 15mins
ISEM_28	IDA2	Process	Auction Runs to market rules	100%	n/a
ISEM_29	IDA2	Process	Final Results publication on Schedule	within 60 minutes	0
ISEM_30	IDA2	Participation	Participant Submissions of Bid/Offer Data	n/a	n/a
ISEM_31	IDA3	Process	Gate Closure on Schedule	100%	+/- 15mins
ISEM_32	IDA3	Process	Auction Runs to market rules	100%	n/a
ISEM_33	IDA3	Process	Final Results publication on Schedule	within 60 minutes	0
ISEM_34	IDA3	Participation	Participant Submissions of Bid/Offer Data	n/a	n/a
ISEM_35	DAM / IDA / IDC	Process	ECC Settlement	100%	n/a
ISEM_37	Settlement	System	No new Sev 1 Incidents encountered	0	0
ISEM_38	Settlement	System	No new Sev 2 Incidents encountered with no viable workaround in place	0	0
ISEM_39	Settlement	Process	Complete and Publish Indicative Settlements	within 60 minutes	0
ISEM_40	Settlement	Process	Complete and Publish Initial Settlements	within 60 minutes	0

ID	Market	Type	Details	Daily Target	Daily Tolerance
ISEM_41	Settlement	Process	Complete and Publish Settlement Document (Fridays only)	By 12:00	0
ISEM_42	Settlement	Process	Complete and Publish Credit Management Process	3 x per day	2
ISEM_43	Settlement	Reports	Report Availability for trade date based on Report Catalogue	95%	5%