

I-SEM Technical Specification (ITS)

RELEASE NOTES **RELEASE 9.0 : 31 JUL 2018**

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1 DISCLAIMER AND CONTENT INFORMATION

This document has been prepared to provide participants with sufficient information in order to develop their own systems to interface with the I-SEM.

The following disclaimers relate to the content of this document and associated volumes and any use by participants of the information provided therein.

1. EirGrid and SONI accept no responsibility for decisions made or actions taken by participants as a result of the information presented in this document or associated documents. Furthermore, EirGrid and SONI do not indemnify any commercial or organisational decisions made by participants in relation to the information herein.
2. This document represents the most up-to-date information on the I-SEM Systems as they have been developed. With this in mind, it is not appropriate simply to compare the document against the market rules; instead, the document is aligned with a release of the I-SEM Systems.
3. The information provided in this document is based entirely on documentation and information provided by the software vendor. Although EirGrid and SONI have made all reasonable efforts to ensure that the information presented is correct, it cannot guarantee the information provided.
4. Further changes to the processes described or schema elements presented may result as new information comes to light during future phases of the market development. To mitigate the impact of such changes, EirGrid and SONI will be issuing planned updates to this document and associated documents (where appropriate).

2 INTRODUCTION

The I-SEM¹ Technical Specification (ITS) comprises a number of volumes which provide participants with the information necessary for them to develop their own systems to interface with the I-SEM central market systems.

This is the last scheduled release of the ITS prior to an I-SEM go-live date of 1 October 2018. In comparison to the majority of previous releases, this is better described as a minor release. It features limited changes to the information related to the systems and services to be used to interact with the Balancing Market, as set out in *Table 1*. For each of the volumes which have changed, a redlined and updated clean version is provided.

Volume	Document	New / Updated / No change
A	Overarching Volume	No Change
B	Technical Volume	Updated
C	Balancing Market Volume	Updated
D	SEMOpx Ex-Ante Markets Volume	No Change
E	Capacity Market Volume	No Change
G	Glossary	No Change
-	MPR Schema and samples	No Change
-	MI Schema and samples	No Change
-	Settlement Schema and samples	No Change
-	Sample Report Files	Updated
-	Meter Data Provider Specification	No Change

Table 1: Changes to ITS Documentation in Release 7.1, By Volume

SEMO is responsible for the maintenance and management of the ITS and welcomes feedback and suggestions in relation to this document at any time. During development of the document by the I-SEM Project prior to market go-live, any correspondence relating to the ITS should be submitted to the I-SEM Project Team (I-SEMProject@sem-o.com), title prefixed with the word “ITS”.

3 RELEASE 9.0 CONTENTS

In addition to the six standard volumes of the I-SEM Technical Specification, an updated set of Balancing Market and SEMO Settlement report files are included with this Release. This release notes document is also provided.

Table 2 below lists each of the documents provided in Release 9.0 of the ITS and its version number.

#	Name	File Name	Version	Date
1	Volume A: Overarching	ISEM_TS Volume A: Overarching V8.0	9.0	09.02.2018
2	Volume B: Technical	ISEM_TS Volume B – Technical Volume V9.0	9.0	31.07.2018
3	Volume C: Balancing Market	ISEM_TS Volume C – Balancing Market V12.0	12.0	31.07.2018

¹ The market arrangements and associated delivery project are known as the I-SEM, but parties are asked to note that the legal name for the new arrangements will be the Single Electricity Market (SEM).

#	Name	File Name	Version	Date
4	Volume D: SEMOpx	ISEM_TS Volume D – SEMOpx V6.0	6.0	13.10.2017
5	Volume E: Capacity Market	ISEM_TS Volume E – Capacity Market V5.0	5.0	28.03.2018
6	Volume G: Glossary	ISEM_TS_Volume G – Glossary V5.0	5.0	13.10.2017
7	ISEM ITS R9.0 Release Notes	ISEM ITS R9.0 Release Notes	1.0	31.07.2018

Table 2: ITS Release 9.0 Content

3.1 VOLUME A: OVERARCHING

The overarching volume of the ITS contains an introduction to the I-SEM Technical Specification.

There is no update in this Release.

3.2 VOLUME B: TECHNICAL

Volume B of the ITS covers the technical aspects of interfaces provided for participants to communicate with the I-SEM Systems in relation to communication via Type 2 or Type 3 Communication Channels, i.e. submission and retrieval of I-SEM Data Transactions via:

- Online transaction (Graphical User Interface); or
- Computer based mechanisms such as web services or API (Application Programming Interfaces).

There is one update in this Release to reflect the new server-ca.jks file needed for accessing the MPC CCQT and PIT environment using the Toolkit.

#	Section	Item Type, Item	Description
1	4.4.2	Toolkit Link	1. Updated the Balancing Market Toolkit link to point to the MPC toolkit on the SEMO website.

Table 3: Volume B: Technical updates

3.3 VOLUME C: BALANCING MARKET

Volume C provides the information required to build systems to interact with the I-SEM Balancing Market systems.

In this update to the version previously released on 28 March 2018, the amended content is summarised as follows:

#	Section	Item Type, Item	Description
1	All Doc	Screenshots	1. Updated report screenshots for clarity.
2	6.7	Report Filename Updates	1. Updated the filename to include the appended datestamp for multiple reports: <ul style="list-style-type: none"> • REPT_020: Load Forecast Summary • REPT_027: Four Day Rolling Wind Forecast • REPT_028: Four Day Aggregated Rolling Wind Forecast • REPT_021/086/087: Daily interconnector Report • REPT_001b: LTS Operational Schedule Report, Member Public • REPT_002b: RTIC Operational Schedule Report, Member Public

#	Section	Item Type, Item	Description
3	6.7.3.3 6.7.3.4 6.7.3.7	Periodicity Update	<ol style="list-style-type: none"> 1. Updated Periodicity to on_demand for REPT_ 027: Four Day Rolling Wind Forecast 2. Updated Periodicity to on_demand for REPT_ 028: Four Day Aggregated Rolling Wind Forecast 3. Updated Periodicity to on_demand for REPT_ 021/086/087: Daily Interconnector Report
4	6.7.3.8	Report Frequency Update	<ol style="list-style-type: none"> 1. Updated Frequency to every hour for REPT_088: Net Imbalance Volume Forecast Report
5	6.7.5.4	Report Name and Filename Update	<p>For REPT_052: Physical Notifications Report – Member Public:</p> <ol style="list-style-type: none"> 1. Updated periodicity to Half-Hourly 2. Updated report name to PUB_HlfHrlyPN 3. Updated filename to PUB_HlfHrlyPN_YYYYMMDDHHMM.xml
6	6.7.9.6 6.7.9.10	Updated description for Meter Reports	<ol style="list-style-type: none"> 1. Updated the description for REPT_017: Daily Meter Data Report, field RESOURCE_TYPE. Removed all references to DSU and SU. 2. Updated the description for REPT_022: Initial Interconnector Flows and Residual Capacity Report, field RESOURCE NAME. Removed all references to GEN, DSU and SU. Only applicable to IUs.
7	6.7.9.13	Report Name and Filename Update	<p>For REPT_101: Outturn Availability:</p> <ol style="list-style-type: none"> 1. Updated report name to PUB_HrlyOutturnAvailability 2. Updated filename to PUB_HrlyOutturnAvailability_YYYYMMDDHHMM.xml
8	6.7.9.14	Report Name Update, Filename Update, Remove Extraneous Fields	<p>For REPT_102: Hourly Dispatch Instructions:</p> <ol style="list-style-type: none"> 1. Updated report name to PUB_HrlyDispatchInstr 2. Updated filename to PUB_PUB_HrlyDispatchInstr_YYYYMMDDHHMM.xml 3. Removed the fields: <ol style="list-style-type: none"> a. INSTRUCTION UNTIL TIME b. RAMP UP RATE c. RAMP DOWN RATE
9	6.7.9.15	Report Name and Filename Update	<p>For REPT_103: Hourly SO Interconnector Trades:</p> <ol style="list-style-type: none"> 1. Updated report name to PUB_HrlyIntconTrades 2. Updated filename to PUB_HrlyIntconTrades_YYYYMMDDHHMM.xml
10	6.7.11.1	Updated field reference	<ol style="list-style-type: none"> 1. For REPT_043, updated the field reference for CHARGE:NAME to align with the previously published technical schema (.xsd)

#	Section	Item Type, Item	Description
11	6.7.11.4	Updated description and Field Reference	<ol style="list-style-type: none"> Updated description of possible values to MARKET_NAME, MARKET, TRACKING:MARKET Updated field reference for SRA:sra_amount, SRA:sra_counterparty to align with the previously published technical schema (.xsd)
12	6.7.11.5	Report filename change	<ol style="list-style-type: none"> Updated the filename for REPT_046: Reallocation Requests to SA_<PT_NNN>_<PublicationDay>_<PublicationDay>_ALL_REPT_<timestamp> <p>*** Note: This is a change to the documentation only. The filename structure remains the same. This makes note that the date value used in the filename refers to publication day , no longer to the Settlement Day.</p>
13	6.7.11.19	Update Field Format	<ol style="list-style-type: none"> Update the format for PERIOD_END_DATE field to DATE(YYYY-MM-DD) in REPT_067; Settlement Calendar to reflect the format from the rendered Settlement Calendar report form the system.
14	Appendix B	Updated Charge Code List	<p>Updated the Charge Code Mapping list:</p> <ol style="list-style-type: none"> Added CDIFFPID, associated with REPT_043 Removed CDIFFPTID, associated with REPT_043, 044 (moved to Appendix C, as this is a determinant)
15	Appendix C	Updated Determinant List	<ol style="list-style-type: none"> Added CDIFFPTID (previously listed erroneously within Appendix B as a Charge Code) Added JCP, JCS to REPT_071 Added JEP, JES to REPT_072 Removed MPCP, MPCS from REPT_071 Removed MPEP, MPES from REPT_072 Added qCMAMAXILF, QMDIFFCDA, QTDA for REPT_044 Updated reference to QDIFFCNP to include REPT_057 Updated reference for QDIFFCTWD to include REPT_044, REPT_057 Updated reference to QDIFFDA to include REPT_057 Removed RMVIP_NI, RMVIP_ROI from REPT_044
16	Appendix D	Updated Report Type and Sub-Type List	<p>Updated the Report Type and Sub-Type table:</p> <ol style="list-style-type: none"> For REPT_078: Changed Report Type to INTERFACE and Report Sub-Type to MISCELLANEOUS For REPT_079: Changed Report Type to INTERFACE and Report Sub-Type to MISCELLANEOUS For REPT_016 Changed Report Type to MARKET and Report Sub-Type to PARTICIPANT_DATA

Table 4: Volume C: Balancing Market updates

3.4 VOLUME D: SEMOPX

Volume D contains the information relating to the SEMOpX Ex-Ante Markets, supporting participants to build systems to connect to the I-SEM Systems in order to interact with the Ex-Ante Markets.

There is no update in this Release.

3.5 VOLUME E: CAPACITY MARKET

Volume E contains the information relating to the Capacity Market Interface, which is a portal interface used by Participants to access the Capacity Market systems, for the purpose of participating in qualification processes and Primary Auctions (including receiving corresponding reports).

There is no update in this Release.

3.6 VOLUME G: GLOSSARY

Volume G of the ITS contains acronyms, definitions and terms which provide information to support the understanding of the content presented in the volumes of the I-SEM Technical Specification.

There is no update in this Release.

Important Note: the definitions presented in Volume G of the ITS are focused on assisting the understanding of the ITS content and are not legally robust definitions. Participants should refer to the relevant market rules and agreed/operating procedure for the legal definitions of defined terms.

3.7 METER DATA PROVIDER FUNCTIONAL DESCRIPTION

The Meter Data Provider Functional Description contains information required by Meter Data Providers to build systems in relation to the provision of Meter Data to support I-SEM operations.

There is no update in this Release.