

Irish Standard I.S. EN 62325-451-4:2017

Framework for energy market communications - Part 451-4: Settlement and reconciliation business process, contextual and assembly models for European market

© CENELEC 2017 No copying without NSAI permission except as permitted by copyright law.

I.S. EN 62325-451-4:2017

2017-07-25

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R.~xxx: Standard~Recommendation-recommendation~based~on~the~consensus~of~an~expert~panel~and~subject~to~public~consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

Published:

This document is based on:

EN 62325-451-4:2017 2017-07-07

This document was published ICS number:

under the authority of the NSAI and comes into effect on: 33.200

NOTE: If blank see CEN/CENELEC cover page

NSAI T +353 1 807 3800 Sales:

 1 Swift Square,
 F +353 1 807 3838
 T +353 1 857 6730

 Northwood, Santry
 E standards@nsai.ie
 F +353 1 857 6729

 Dublin 9
 W NSAI.ie
 W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

National Foreword

I.S. EN 62325-451-4:2017 is the adopted Irish version of the European Document EN 62325-451-4:2017, Framework for energy market communications - Part 451-4: Settlement and reconciliation business process, contextual and assembly models for European market

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This is a free page sample. Access the full version online.

This page is intentionally left blank

EUROPEAN STANDARD

EN 62325-451-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2017

ICS 33.200

Supersedes EN 62325-451-4:2015

English Version

Framework for energy market communications Part 451-4: Settlement and reconciliation business process,
contextual and assembly models for European market
(IEC 62325-451-4:2017)

Cadre pour les communications pour le marché de l'énergie
- Partie 451-4: Processus métier de règlement des écarts et de réconciliation, modèles contextuels et modèles d'assemblage pour le marché européen (IEC 62325-451-4:2017) Kommunikation im Energiemarkt -Teil 451-4: Abwicklungs- und Abstimmungsgeschäftsprozesse, kontextbezogene Modelle und Einbindungsmodelle für den europäischen Markt (IEC 62325-451-4:2017)

This European Standard was approved by CENELEC on 2017-05-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 62325-451-4:2017

European foreword

The text of document 57/1737/CDV, future edition 2 of IEC 62325-451-4, prepared by IEC/TC 57 "Power systems management and associated information exchange" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62325-451-4:2017.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2018-02-16
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2020-05-16

This document supersedes EN 62325-451-4:2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 62325-451-4:2017 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61968-11	NOTE	Harmonized as EN 61968-11.
IEC 61970-301	NOTE	Harmonized as EN 61970-301.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC/TS 61970-2	-	Energy management system application program interface (EMS-API) - Part 2: Glossary	CLC/TS 61970-2	-
IEC 62325-301	-	Framework for energy market communications - Part 301: Common information model (CIM) extensions for markets	EN 62325-301	-
IEC 62325-351	-	Framework for energy market communications - Part 351: CIM European market model exchange profile	EN 62325-351	-
IEC 62325-450	2013	Framework for energy market communications - Part 450: Profile and context modelling rules	EN 62325-450	2013
IEC 62325-451-1	-	Framework for energy market communications - Part 451-1: Acknowledgement business process and contextual model for CIM European market	EN 62325-451-1	-
IEC 62325-451-2	-	Framework for energy market communications - Part 451-2: Scheduling business process and contextual models for European market	EN 62325-451-2	-
IEC 62361-100	-	Power systems management and associated information exchange - Interoperability in the long term - Part 100: CIM profiles to XML schema mapping	EN 62361-100	-

This is a free page sample. Access the full version online.

This page is intentionally left blank



IEC 62325-451-4

Edition 2.0 2017-04

INTERNATIONAL STANDARD



Framework for energy market communications – Part 451-4: Settlement and reconciliation business process, contextual and assembly models for European market





THIS PUBLICATION IS COPYRIGHT PROTECTED Copyright © 2017 IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester. If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

IEC Central Office Tel.: +41 22 919 02 11 3, rue de Varembé Fax: +41 22 919 03 00

CH-1211 Geneva 20 info@iec.ch Switzerland www.iec.ch

About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigenda or an amendment might have been published.

IEC Catalogue - webstore.iec.ch/catalogue

The stand-alone application for consulting the entire bibliographical information on IEC International Standards, Technical Specifications, Technical Reports and other documents. Available for PC, Mac OS, Android Tablets and iPad

IEC publications search - www.iec.ch/searchpub

The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee,...). It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - webstore.iec.ch/justpublished

Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and also once a month by email.

Electropedia - www.electropedia.org

The world's leading online dictionary of electronic and electrical terms containing 20 000 terms and definitions in English and French, with equivalent terms in 16 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

IEC Glossary - std.iec.ch/glossary

65 000 electrotechnical terminology entries in English and French extracted from the Terms and Definitions clause of IEC publications issued since 2002. Some entries have been collected from earlier publications of IEC TC 37, 77, 86 and CISPR.

IEC Customer Service Centre - webstore.iec.ch/csc

If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: csc@iec.ch.



IEC 62325-451-4

Edition 2.0 2017-04

INTERNATIONAL STANDARD



Framework for energy market communications –
Part 451-4: Settlement and reconciliation business process, contextual and assembly models for European market

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ICS 33.200 ISBN 978-2-8322-4145-5

Warning! Make sure that you obtained this publication from an authorized distributor.

- 2 - IEC 62325-451-4:2017 © IEC 2017

CONTENTS

Ε(DREWC	PRD	6
IN	TRODU	JCTION	8
1	Scor	pe	9
2		native references	
3		ns and definitions	
4		ıment contextual model and message assembly model basic concepts	
4		Overview	
	4.1 4.2		
	4.2	European style market package structure From the European style market profile to the document contextual model	
	4.4	From the document contextual model to the message assembly model	
	4.5	From the assembly model to the XML schema	
5		settlement and reconciliation business process	
Ŭ	5.1	Balance responsible party and settlement	
	5.2	Overall business context	
	5.3	Use cases	
	5.4	Process flow	
	5.5	Business rules for the settlement and reconciliation process	
	5.5.1	·	
	5.5.2		
	5.5.3		
	5.5.4		
	5.5.5	Rules governing the Point class	23
	5.5.6	Attribute price.amount	23
6	Cont	extual and assembly models	24
	6.1	Energy account contextual model	24
	6.1.1	Overview of the model	24
	6.1.2	IsBasedOn relationships from the European style market profile	24
	6.1.3	Detailed Energy account contextual model	25
	6.2	Energy account assembly model	33
	6.2.1		
	6.2.2		
	6.2.3	,	35
	6.2.4		
	6.2.5	· · · · · · · · · · · · · · · · · · ·	
_	6.2.6		
7	XML	schema	
	7.1	XML schema URN namespace rules	
	7.2	Code list URN namespace rules	
	7.3	URI rules for model documentation	
	7.3.1	21	
	7.3.2		
	7.3.3		
	7.3.4		
	7.4 7.4.1	EnergyAccount_MarketDocument schema Schema Structure	
	7.4.1		
	1.4.2	Concina description	

IEC 62325-451-4:2017 © IEC 2017 - 3 -

Bibliography	59
Figure 1 – IEC 62325-450 modelling framework	12
Figure 2 – Overview of European style market profile dependency	13
Figure 3 – Balance responsible party relations	15
Figure 4 – Settlement/reconciliation use case	18
Figure 5 – Sequence diagram of the information flow	
Figure 6 – Energy account contextual model	24
Figure 7 – Energy account assembly model	
Figure 8 – EnergyAccount_MarketDocument XML Schema Structure 1/2	51
Figure 9 – EnergyAccount_MarketDocument XML Schema Structure 2/2	52
Table 1 – Dependency table for type, processType and businessType	22
Table 2 – Dependency table for TimeSeries attributes	23
Table 3 – Dependency table for price.amount attribute	23
Table 4 – IsBasedOn dependency	24
Table 5 – Attributes of Energy account contextual model::EnergyAccount_MarketDocument	25
Table 6 – Association ends of Energy account contextual model::EnergyAccount_MarketDocument with other classes	26
Table 7 – Attributes of Energy account contextual model::Currency_Unit	26
Table 8 – Attributes of Energy account contextual model::Domain	27
Table 9 – Attributes of Energy account contextual model::MarketAgreement	27
Table 10 – Attributes of Energy account contextual model::MarketEvaluationPoint	27
Table 11 – Attributes of Energy account contextual model::MarketParticipant	27
Table 12 – Association ends of Energy account contextual model::MarketParticipant with other classes	28
Table 13 – Attributes of Energy account contextual model::MarketRole	28
Table 14 – Attributes of Energy account contextual model::Measure_Unit	28
Table 15 – Attributes of Energy account contextual model:: Party_MarketParticipant	28
Table 16 – Attributes of Energy account contextual model::Point	29
Table 17 – Association ends of Energy account contextual model ::Point with other classes	29
Table 18 – Attributes of Energy account contextual model::Price	30
Table 19 – Attributes of Energy account contextual model::Process	30
Table 20 – Attributes of Energy account contextual model::Quantity	30
Table 21 – Attributes of Energy account contextual model::Reason	31
Table 22 – Attributes of Energy account contextual model::Series_Period	31
Table 23 – Association ends of Energy account contextual model::Series_Period with other classes	31
Table 24 – Attributes of Energy account contextual model::Time_Period	31
Table 25 – Attributes of Energy account contextual model::TimeSeries	32
Table 26 – Association ends of Energy account contextual model::TimeSeries with other classes	
Table 27 – IsBasedOn dependency	

- 4 - IEC 62325-451-4:2017 © IEC 2017

Table 28 – Attributes of Energy account assembly model::EnergyAccount_MarketDocument	35
Table 29 – Association ends of Energy account assembly model::EnergyAccount_MarketDocument with other classes	36
Table 30 – Attributes of Energy account assembly model::Point	36
Table 31 – Association ends of Energy account assembly model:: Point with other classes	37
Table 32 – Attributes of Energy account assembly model::Reason	37
Table 33 – Attributes of Energy account assembly model::Series_Period	38
Table 34 – Association ends of Energy account assembly model:: Series_Period with other classes	38
Table 35 – Attributes of Energy account assembly model::TimeSeries	38
Table 36 – Association ends of Energy account assembly model:: TimeSeries with	
other classes	
Table 37 – Attributes of ESMPDataTypes::Action_Status	
Table 38 – Attributes of ESMPDataTypes::ESMP_DateTimeInterval	
Table 39 – Attributes of ESMPDataTypes::Amount_Decimal	
Table 40 – Restrictions of attributes for ESMPDataTypes::Amount_Decimal	
Table 41 – Attributes of ESMPDataTypes::AreaID_String	
Table 42 – Restrictions of attributes for ESMPDataTypes::AreaID_String	
Table 43 – Attributes of ESMPDataTypes::BusinessKind_String	
Table 44 – Attributes of ESMPDataTypes::ClassificationKind_String	41
Table 45 – Attributes of ESMPDataTypes::CurrencyCode_String	42
Table 46 – Attributes of ESMPDataTypes::EnergyProductKind_String	42
Table 47 – Attributes of ESMPDataTypes::ESMP_DateTime	42
Table 48 – Restrictions of attributes for ESMPDataTypes::ESMP_DateTime	42
Table 49 – Attributes of ESMPDataTypes::ESMPVersion_String	43
Table 50 – Restrictions of attributes for ESMPDataTypes::ESMPVersion_String	43
Table 51 – Attributes of ESMPDataTypes::ID_String	43
Table 52 – Restrictions of attributes for ESMPDataTypes::ID_String	43
Table 53 – Attributes of ESMPDataTypes::MarketRoleKind_String	44
Table 54 – Attributes of ESMPDataTypes::MeasurementPointID_String	44
Table 55 – Restrictions of attributes for ESMPDataTypes:: MeasurementPointID_String	44
Table 56 – Attributes of ESMPDataTypes::MeasurementUnitKind_String	44
Table 57 – Attributes of ESMPDataTypes::MessageKind_String	45
Table 58 – Attributes of ESMPDataTypes::ObjectAggregationKind_String	45
Table 59 – Attributes of ESMPDataTypes::PartyID_String	45
Table 60 – Restrictions of attributes for ESMPDataTypes::PartyID_String	45
Table 61 – Attributes of ESMPDataTypes::Position_Integer	46
Table 62 – Restrictions of attributes for ESMPDataTypes::Position_Integer	46
Table 63 – Attributes of ESMPDataTypes::ProcessKind_String	46
Table 64 – Attributes of ESMPDataTypes::Quality_String	46
Table 65 – Attributes of ESMPDataTypes::ReasonCode_String	47
Table 66 – Attributes of ESMPDataTypes::ReasonText_String	47
Table 67 – Restrictions of attributes for ESMPDataTypes::ReasonText_String	47

This is a free page sample. Access the full version online. $\pmb{\text{I.S. EN 62325-451-4:2017}}$

IEC 62325-451-4:2017 © IEC 2017	- 5 -	
Table 68 – Attributes of ESMPDataTypes::S	Status_String	17
Table 69 – Attributes of ESMPDataTypes::\	/MDHM_DateTime	18
Table 70 – Restrictions of attributes for ESI	MPDataTypes::YMDHM	18

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FRAMEWORK FOR ENERGY MARKET COMMUNICATIONS -

Part 451-4: Settlement and reconciliation business process, contextual and assembly models for European market

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international
 consensus of opinion on the relevant subjects since each technical committee has representation from all
 interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 62325-451-4 has been prepared by IEC technical committee 57: Power systems management and associated information exchange.

This second edition cancels and replaces the first edition published in 2014. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Removal of the attributes "quantity" and "secondary quantity" of the class "Point";
- b) Introduction of the class "Quantity" from IEC 62351-351 UML package, with the following attributes "quantity" as mandatory and "quality" as optional, and create two association 1..1 between the class "Quantity" and the class "Point" with the role "In_Quantity" and "Out Quantity".

IEC 62325-451-4:2017 © IEC 2017

-7-

c) Introduction of the class "Reason" from IEC 62351-351 UML package, with the following attributes "code" as mandatory and "text" as optional, and create an association 0..* from the class "Reason" to the class "Point" with the role "Reason".

The text of this International Standard is based on the following documents:

CDV	Report on voting
57/1737/CDV	57/1804/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62325 series, published under the general title *Framework for energy market communications*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- · replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

- 8 - IEC 62325-451-4:2017 © IEC 2017

INTRODUCTION

This standard is one of the IEC 62325 series which define protocols for deregulated energy market communications.

The principal objective of the IEC 62325 series is to produce standards which facilitate the integration of market application software developed independently by different vendors into a market management system, between market management systems and market participant systems. This is accomplished by defining message exchanges to enable these applications or systems access to public data and exchange information independent of how such information is represented internally.

The common information model (CIM) specifies the basis for the semantics for this message exchange.

The European style market profile (ESMP) is based on different parts of the CIM IEC standard. The CIM is defined through a series of standards, i.e. IEC 62325-301, IEC 61970-301 and IEC 61968-11.

This document provides the settlement and reconciliation business process that can be used throughout a European style market. This standard was originally based upon the work of the European Transmission System Operators (ETSO) Task Force EDI (Electronic Data Interchange) and then on the work of the European Network of Transmission System Operators (ENTSO-E) Working Group EDI.

This document describes the settlement and reconciliation process for wholesale markets; it is brought to the attention of the reader that it is envisaged to initiate work on a combined reconciliation process for retail and wholesale markets.

IEC 62325-451-4:2017 © IEC 2017

_ 9 _

FRAMEWORK FOR ENERGY MARKET COMMUNICATIONS -

Part 451-4: Settlement and reconciliation business process, contextual and assembly models for European market

1 Scope

Based on the European style market profile (ESMP) (IEC 62325-351), this part of IEC 62325-451 specifies a package for the settlement and reconciliation business process and the associated document contextual model, assembly model and XML schema for use within European style markets.

The relevant aggregate core components (ACCs) defined in IEC 62325-351 have been contextualised into aggregated business information entities (ABIEs) to satisfy the requirements of this business process. The contextualised ABIEs have been assembled into the relevant document contextual models. Related assembly models and XML schema for the exchange of information between market participants are automatically generated from the assembled document contextual models.

This part of IEC 62325 provides a uniform layout for the transmission of aggregated data in order to settle the electricity market. It is however not the purpose of this document to define the formula to be taken into account to settle or reconcile a market. The purpose of this document is only to enable the information exchange necessary to carry out the computation of settlement and reconciliation.

The settlement process or reconciliation process is the way to compute the final position of each market participant as well as its imbalance amounts.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC TS 61970-2, Energy management system application program interface (EMS-API) – Part 2: Glossary

IEC 62325-301, Framework for energy market communications — Part 301: Common information model (CIM) extensions for markets

IEC 62325-351, Framework for energy market communications – Part 351: CIM European market model exchange profile

IEC 62325-450:2013, Framework for energy market communications – Part 450: Profile and context modelling rules

IEC 62325-451-1, Framework for energy market communications – Part 451-1: Acknowledgement business process and contextual model for CIM European market

IEC 62325-451-2, Framework for energy market communications – Part 451-2: Scheduling business process and contextual model for CIM European market

IEC 62361-100, Power systems management and associated information exchange – Interoperability in the long term – Part 100: CIM profiles to XML schema mapping



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation