IEC 62325-451-3

Edition 1.1 2017-05
CONSOLIDATED VERSION

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Framework for energy market communications –
Part 451-3: Transmission capacity allocation business process (explicit or implicit auction) and contextual models for European market

Cadre pour les communications pour le marché de l'énergie –
Partie 451-3: Processus métier d'attribution de la capacité de transport (vente aux enchères explicite ou implicite) et modèles contextuels pour le marché européen

iTeh Standards
(https://standards.iteh.ai)
Document Preview
https://standards.iteh.ai/catalog/standards/iec/0299c444-a8e9-49bf-9ad7-b740ff9479fe/iec-62325-451-3-2014

IEC 62325-451-3:2014-07+AMD1:2017-05 CSV(en-fr)

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.

Droits de reproduction réservés. Sauf indication contraire, aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'IEC ou du Comité national de l'IEC du pays du demandeur. Si vous avez des questions sur le copyright de l'IEC ou si vous désirez obtenir des droits supplémentaires sur cette publication, utilisez les coordonnées ci-après ou contactez le Comité national de l'IEC de votre pays de résidence.

IEC Central Office
3, rue de Varembé
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
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.

(https://standards.iteh.ai)
IEC 62325-451-3:2014
https://standards.iteh.ai/catalog/standards/sist/...-451-3-2014

A propos de l'IEC
La Commission Electrotechnique Internationale (IEC) est la première organisation mondiale qui élabore et publie des Normes internationales pour tout ce qui a trait à l'électricité, à l'électronique et aux technologies apparentées.

A propos des publications IEC
Le contenu technique des publications IEC est constamment revu. Veuillez vous assurer que vous possédez l'édition la plus récente, un corrigendum ou amendement peut avoir été publié.

Catalogue IEC - webstore.iec.ch/catalogue
Application autonome pour consulter tous les renseignements bibliographiques sur les Normes internationales, Spécifications techniques, Rapports techniques et autres documents de l'IEC. Disponible pour PC, Mac OS, tablettes Android et iPad.

Recherche de publications IEC - www.iec.ch/searchpub
La recherche avancée permet de trouver des publications IEC en utilisant différents critères (numéro de référence, texte, comité d'études,…). Elle donne aussi des informations sur les projets et les publications remplacées ou retirées.

IEC Just Published - webstore.iec.ch/justpublished
Restez informé sur les nouvelles publications IEC. Just Published détaille les nouvelles publications parues. Disponible en ligne et aussi une fois par mois par email.

Electropedia - www.electropedia.org
Le premier dictionnaire en ligne de termes électroniques et électriques. Il contient 20 000 termes et définitions en anglais et en français, ainsi que les termes équivalents dans 16 langues additionnelles. Egalement appelé Vocabulaire Electrotechnique International (IEV) en ligne.

Glossaire IEC - std.iec.ch/glossary
65 000 entrées terminologiques électrotechniques, en anglais et en français, extraites des articles Termes et Définitions des publications IEC parues depuis 2002. Plus certaines entrées antérieures extraites des publications des CE 37, 77, 86 et CISPR de l'IEC.

Service Clients - webstore.iec.ch/csc
Si vous désirez nous donner des commentaires sur cette publication ou si vous avez des questions contactez-nous: csc@iec.ch.

IEC 62325-451-3

Edition 1.1 2017-05
CONSOLIDATED VERSION

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Framework for energy market communications – Part 451-3: Transmission capacity allocation business process (explicit or implicit auction) and contextual models for European market

Cadre pour les communications pour le marché de l'énergie – Partie 451-3: Processus métier d'attribution de la capacité de transport (vente aux enchères explicite ou implicite) et modèles contextuels pour le marché européen

iTeh Standards
(https://standards.iteh.ai)
Document Preview
https://standards.iteh.ai/catalog/standards/iec/0299c444-a8e9-49bf-9ad7-b740ff9479fe/iec-62325-451-3-2014

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 33.200

ISBN 978-2-8322-4293-3

Warning! Make sure that you obtained this publication from an authorized distributor.
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.

® Registered trademark of the International Electrotechnical Commission
Marque déposée de la Commission Electrotechnique Internationale

iTeh Standards
(https://standards.iteh.ai)
Document Preview

IEC 62325-451-3:2014
https://standards.iteh.ai/catalog/standards/iec/0299c444-a8e9-49bf-9ad7-b740ff9479fe/iec-62325-451-3-2014

IEC 62325-451-3

Edition 1.1 2017-05
CONSOLIDATED VERSION

REDLINE VERSION

VERSION REDLINE

colour inside

Framework for energy market communications – Part 451-3: Transmission capacity allocation business process (explicit or implicit auction) and contextual models for European market

Cadre pour les communications pour le marché de l'énergie – Partie 451-3: Processus métier d'attribution de la capacité de transport (vente aux enchères explicite ou implicite) et modèles contextuels pour le marché européen

iTeh Standards
(https://standards.iteh.ai)
Document Preview
https://standards.iteh.ai/catalog/standards/iec/0299c444-a8e9-49bf-9ad7-b740ff9479fe/iec-62325-451-3-2014

IEC 62325-451-3:2014-07+AMD1:2017-05 CSV(en-fr)

CONTENTS

FOREWORD 14
INTRODUCTION 16
1 Scope 17
2 Normative references 17
3 Terms and definitions 18
4 Document contextual model and message assembly model basic concepts 20
4.1 Overview 20
4.2 European style market package (ESMP) structure 22
4.3 From the European style market profile to the document contextual model 23
4.4 From the document contextual model to the message assembly model 23
4.5 From the assembly model to the XML schema 23
5 The transmission capacity allocation business process 23
5.1 Overall business context 23
5.2 Establish offered capacity process 25
5.3 Explicit auction process 27
5.3.1 Overview of explicit auction process 27
5.3.2 Bid and allocate capacity 27
5.3.3 Publish auction results 28
5.3.4 Trade and negotiate allocated capacity 28
5.3.5 Capacity rights resale 28
5.3.6 Possibility of curtailment of allocated capacity 29
5.3.7 Designate interconnection trade responsible for nomination 29
5.3.8 Nominate use of border capacity 29
5.3.9 Validate nominations 30
5.4 Implicit auction process 30
5.4.1 Overview implicit auction process 30
5.4.2 Submit bids and offers to local exchange 31
5.4.3 Implicit auction 31
5.4.4 Publish exchange results 31
5.4.5 Publish trade results 31
5.5 Business rules for the transmission capacity allocation process 32
5.5.1 General rules 32
5.5.2 Rules governing the Bid_MarketDocument 32
5.5.3 Rules governing the Capacity_MarketDocument 33
5.5.4 Rules governing the AllocationResult_MarketDocument 33
5.5.5 Rules governing the TotalAllocationResult_MarketDocument 33
5.5.6 Rules governing the Rights_MarketDocument 34
6 Contextual and assembly models 36
6.1 Bid contextual model 36
6.1.1 Overview of the model 36
6.1.2 IsBasedOn relationships from the European style market profile 37
6.1.3 Detailed Bid contextual model 37
6.2 Bid assembly model 44
6.2.1 Overview of the model 44
6.2.2 IsBasedOn relationships from the European style market profile 45
6.2.3 Detailed Bid assembly model 45

iTeh Standards
(https://standards.iteh.ai)
Document Preview
IEC 62325-451-3:2014
https://standards.iteh.ai/catalog/standards/sist/0299c444-a8e9-49bf-9ad7-b740ff9479fe/iec-62325-451-3-2014

6.3 Capacity auction specification contextual model 49
6.3.1 Overview of the model 49
6.3.2 IsBasedOn relationships from the European style market profile 50
6.3.3 Detailed Capacity auction specification contextual model 51
6.4 Capacity auction specification assembly model 61
6.4.1 Overview of the model 61
6.4.2 IsBasedOn relationships from the European style market profile 62
6.4.3 Detailed Capacity auction specification assembly model 63
6.5 Capacity contextual model 70
6.5.1 Overview of the model 70
6.5.2 IsBasedOn relationships from the European style market profile 71
6.5.3 Detailed Capacity contextual model 72
6.6 Capacity assembly model 79
6.6.1 Overview of the model 79
6.6.2 IsBasedOn relationships from the European style market profile 80
6.6.3 Detailed Capacity assembly model 81
6.7 Allocation result contextual model 85
6.7.1 Overview of the model 85
6.7.2 IsBasedOn relationships from the European style market profile 86
6.7.3 Detailed Allocation result contextual model 86
6.8 Allocation result assembly model 95
6.8.1 Overview of the model 95
6.8.2 IsBasedOn relationships from the European style market profile 97
6.8.3 Detailed Allocation result assembly model 97
6.9 Total allocation result contextual model 102
6.9.1 Overview of the model 102
6.9.2 IsBasedOn relationships from the European style market profile 103
6.9.3 Detailed Total allocation result contextual model 104
6.10 Total allocation result assembly model 114
6.10.1 Overview of the model 114
6.10.2 IsBasedOn relationships from the European style market profile 114
6.10.3 Detailed Total allocation result assembly model 115
6.11 Implicit auction result contextual model 122
6.11.1 Overview of the model 122
6.11.2 IsBasedOn relationships from the European style market profile 123
6.11.3 Detailed Implicit auction result contextual model 123
6.12 Implicit auction result assembly model 131
6.12.1 Overview of the model 131
6.12.2 IsBasedOn relationships from the European style market profile 132
6.12.3 Detailed Implicit auction result assembly model 132
6.13 Publication contextual model 137
6.13.1 Overview of the model 137
6.13.2 IsBasedOn relationships from the European style market profile 138
6.13.3 Detailed Publication contextual model 138
6.14 Publication assembly model 147
6.14.1 Overview of the model 147
6.14.2 IsBasedOn relationships from the European style market profile 148
6.14.3 Detailed Publication assembly model 149
6.15 Rights contextual model 154

iTeh Standards
(https://standards.iteh.ai)
Document Preview
https://standards.iteh.ai/catalog/standards/iec/62325-451-3-2014

6.15.1 Overview of the model 154
6.15.2 IsBasedOn relationships from the European style market profile 155
6.15.3 Detailed Rights contextual model 156
6.16 Rights assembly model 165
6.16.1 Overview of the model 165
6.16.2 IsBasedOn relationships from the European style market profile 166
6.16.3 Detailed Rights assembly model 166
7 XML schema 171
7.1 XML schema URN Namespace rules 171
7.2 Code list URN namespace rules 171
7.3 URI rules for model documentation 172
7.3.1 Datatype 172
7.3.2 Class 172
7.3.3 Attribute 172
7.3.4 Association end role name 173
7.4 Bid_MarketDocument schema 174
7.4.1 Schema Structure 174
7.4.2 Schema description 175
7.5 CapacityAuctionSpecification_MarketDocument schema 180
7.5.1 Schema Structure 180
7.5.2 Schema description 182
7.6 Capacity_MarketDocument schema 188
7.6.1 Schema Structure 188
7.6.2 Schema description 191
7.7 AllocationResult_MarketDocument schema 196
7.7.1 Schema Structure 196
7.7.2 Schema description 198
7.8 TotalAllocationResult_MarketDocument schema 203
7.8.1 Schema Structure 203
7.8.2 Schema description 205
7.9 ImplicitAuctionResult_MarketDocument schema 210
7.9.1 Schema Structure 210
7.9.2 Schema description 212
7.10 Publication_MarketDocument schema 216
7.10.1 Schema Structure 216
7.10.2 Schema description 218
7.11 Rights_MarketDocument schema 223
7.11.1 Schema Structure 223
7.11.2 Schema description 225
Bibliography 230

Figure 1 – IEC 623235-450 modelling framework 21
Figure 2 – Overview of European style market profile dependency 22
Figure 3 – Use case of the transmission capacity allocation process 25
Figure 4 – Establish offered capacity overview 27
Figure 5 – Auction capacity 28
Figure 6 – Transfer and curtailment 29
Figure 7 – Nomination of capacity rights 30

iTeh Standards
(https://standards.iteh.ai)
Document Preview
IEC 62325-451-3:2014
https://standards.iteh.ai/catalog/standards/sist/e7a17408f4706/iec-62325-451-3-2014

Figure 8 – Implicit auction overview 31
Figure 9 – Bid contextual model 36
Figure 10 – Bid assembly model 44
Figure 11 – Capacity auction specification contextual model 50
Figure 12 – Capacity auction specification assembly model 62
Figure 13 – Capacity contextual model 71
Figure 14 – Capacity assembly model 80
Figure 15 – Allocation result contextual model 85
Figure 16 – Allocation result assembly model 96
Figure 17 – Total allocation result contextual model 103
Figure 18 – Total allocation result assembly model 114
Figure 19 – Implicit auction result contextual model 122
Figure 20 – Implicit auction result assembly model 131
Figure 21 – Publication contextual model 137
Figure 22 – Publication assembly model 148
Figure 23 – Rights contextual model 155
Figure 24 – Rights assembly model 165
Figure 25 – Bid_MarketDocument XML schema structure – 1/2 174
Figure 26 – Bid_MarketDocument XML schema structure – 2/2 175
Figure 27 – CapacityAuctionSpecification_MarketDocument XML schema structure – 1/2 180
Figure 28 – CapacityAuctionSpecification_MarketDocument XML schema structure – 2/2 182
Figure 29 – Capacity_MarketDocument XML schema structure – 1/2 189
Figure 30 – Capacity_MarketDocument XML schema structure – 2/2 191
Figure 31 – AllocationResult_MarketDocument XML schema structure – 1/2 196
Figure 32 – AllocationResult_MarketDocument XML schema structure – 2/2 197
Figure 33 – TotalAllocationResult_MarketDocument XML schema structure – 1/2 203
Figure 34 – TotalAllocationResult_MarketDocument XML schema structure – 2/2 204
Figure 35 – ImplicitAuctionResult_MarketDocument XML schema structure – 1/2 210
Figure 36 – ImplicitAuctionResult_MarketDocument XML schema structure – 2/2 211
Figure 37 – Publication_MarketDocument XML schema structure – 1/2 216
Figure 38 – Publication_MarketDocument XML schema structure – 2/2 217
Figure 39 – Rights_MarketDocument XML schema structure – 1/2 223
Figure 40 – Rights_MarketDocument XML schema structure – 2/2 224

Table 1 – Bid indicators dependency 32
Table 2 – Rights_MarketDocument dependency table 35
Table 3 – IsBasedOn dependency 37
Table 4 – Attributes of Bid contextual model::Bid_MarketDocument 37
Table 5 – Association ends of Bid contextual model:: Bid_MarketDocument with other classes 38
Table 6 – Attributes of Bid contextual model::Auction 38
Table 7 – Attributes of Bid contextual model::BidTimeSeries 39
Table 8 – Association ends of Bid contextual model:: BidTimeSeries with other classes 39

iTeh Standards
(https://standards.iteh.ai)
Document Preview

Table 9 – Attributes of Bid contextual model::Currency_Unit 40
Table 10 – Attributes of Bid contextual model::Domain 40
Table 11 – Attributes of Bid contextual model::MarketParticipant 40
Table 12 – Association ends of Bid contextual model:: MarketParticipant with other classes 41
Table 13 – Attributes of Bid contextual model::MarketRole 41
Table 14 – Attributes of Bid contextual model::Measure_Unit 41
Table 15 – Attributes of Bid contextual model::Point 42
Table 16 – Association ends of Bid contextual model::Point with other classes 42
Table 17 – Attributes of Bid contextual model::Price 42
Table 18 – Attributes of Bid contextual model::Series_Period 42
Table 19 – Association ends of Bid contextual model::Series_Period with other classes 43
Table 20 – Attributes of Bid contextual model::Time_Period 43
Table 21 – IsBasedOn dependency 45
Table 22 – Attributes of Bid assembly model::Bid_MarketDocument 46
Table 23 – Association ends of Bid assembly model:: Bid_MarketDocument with other classes 46
Table 24 – Attributes of Bid assembly model::BidTimeSeries 47
Table 25 – Association ends of Bid assembly model:: BidTimeSeries with other classes 47
Table 26 – Attributes of Bid assembly model::Point 48
Table 27 – Attributes of Bid assembly model::Series_Period 48
Table 28 – Association ends of Bid assembly model::Series_Period with other classes 48
Table 29 – IsBasedOn dependency 50
Table 30 – Attributes of Capacity auction specification contextual model::CapacityAuctionSpecification_MarketDocument 51
Table 31 – Association ends of Capacity auction specification contextual model::CapacityAuctionSpecification_MarketDocument with other classes 51
Table 32 – Attributes of Capacity auction specification contextual model::AttributeInstanceComponent 52
Table 33 – Attributes of Capacity auction specification contextual model::Auction 53
Table 34 – Attributes of Capacity auction specification contextual model::Auction_TimeSeries 53
Table 35 – Association ends of Capacity auction specification contextual model::Auction_TimeSeries with other classes 53
Table 36 – Attributes of Capacity auction specification contextual model::Contract_MarketAgreement 56
Table 37 – Attributes of Capacity auction specification contextual model::Currency_Unit 56
Table 38 – Attributes of Capacity auction specification contextual model::Date_MarketAgreement 56
Table 39 – Attributes of Capacity auction specification contextual model::Domain 57
Table 40 – Attributes of Capacity auction specification contextual model::MarketParticipant 57
Table 41 – Association ends of Capacity auction specification contextual model::MarketParticipant with other classes 57
Table 42 – Attributes of Capacity auction specification contextual model::MarketRole 57
Table 43 – Attributes of Capacity auction specification contextual model::Measure_Unit 58

iTeh Standards
(https://standards.iteh.ai)
Document Preview
IEC 62325-451-3:2014
https://standards.iteh.ai/catalog/standards/sist/9220c144-e0c0-49b6-8d74-b749ffd479fe/iec-62325-451-3-2014

Table 44 – Attributes of Capacity auction specification contextual model::Point 58
Table 45 – Attributes of Capacity auction specification contextual model::Process 58
Table 46 – Attributes of Capacity auction specification contextual model::Reason 59
Table 47 – Attributes of Capacity auction specification contextual model::RightsCharacteristics_Auction 59
Table 48 – Attributes of Capacity auction specification contextual model::Series_Period 59
Table 49 – Association ends of Capacity auction specification contextual model::Series_Period with other classes 59
Table 50 – Attributes of Capacity auction specification contextual model::Time_Period 60
Table 51 – IsBasedOn dependency 62
Table 52 – Attributes of Capacity auction specification assembly model::CapacityAuctionSpecification_MarketDocument 64
Table 53 – Association ends of Capacity auction specification assembly model::CapacityAuctionSpecification_MarketDocument with other classes 64
Table 54 – Attributes of Capacity auction specification assembly model::AttributeInstanceComponent 65
Table 55 – Attributes of Capacity auction specification assembly model::Auction_TimeSeries 65
Table 56 – Association ends of Capacity auction specification assembly model::Auction_TimeSeries with other classes 68
Table 57 – Attributes of Capacity auction specification assembly model::Point 68
Table 58 – Attributes of Capacity auction specification assembly model::Reason 69
Table 59 – Attributes of Capacity auction specification assembly model::RightsCharacteristics_Auction 69
Table 60 – Attributes of Capacity auction specification assembly model::Series_Period 69
Table 61 – Association ends of Capacity auction specification assembly model::Series_Period with other classes 69
Table 62 – IsBasedOn dependency 71
Table 63 – Attributes of Capacity contextual model::Capacity_MarketDocument 72
Table 64 – Association ends of Capacity contextual model:: Capacity_MarketDocument with other classes 72
Table 65 – Attributes of Capacity contextual model::Auction 73
Table 66 – Attributes of Capacity contextual model::Domain 73
Table 67 – Attributes of Capacity contextual model::MarketParticipant 74
Table 68 – Association ends of Capacity contextual model:: MarketParticipant with other classes 74
Table 69 – Attributes of Capacity contextual model::MarketRole 74
Table 70 – Attributes of Capacity contextual model::Measure_Unit 74
Table 71 – Attributes of Capacity contextual model::Point 75
Table 72 – Association ends of Capacity contextual model::Point with other classes 75
Table 73 – Attributes of Capacity contextual model::Process 75
Table 74 – Attributes of Capacity contextual model::Reason 76
Table 75 – Attributes of Capacity contextual model::Series_Period 76
Table 76 – Association ends of Capacity contextual model:: Series_Period with other classes 76
Table 77 – Attributes of Capacity contextual model::Time_Period 76

iTeh Standards
(https://standards.iteh.ai)
Document Preview
IEC 62325-451-3:2014
https://standards.iteh.ai/catalog/standards/iec/...-62325-451-3-2014

Table 78 – Attributes of Capacity contextual model::TimeSeries 77
Table 79 – Association ends of Capacity contextual model:: TimeSeries with other classes 77
Table 80 – IsBasedOn dependency 80
Table 81 – Attributes of Capacity assembly model::Capacity_MarketDocument 81
Table 82 – Association ends of Capacity assembly model:: Capacity_MarketDocument with other classes 82
Table 83 – Attributes of Capacity assembly model::Point 82
Table 84 – Association ends of Capacity assembly model::Point with other classes 82
Table 85 – Attributes of Capacity assembly model::Reason 83
Table 86 – Attributes of Capacity assembly model::Series_Period 83
Table 87 – Association ends of Capacity assembly model:: Series_Period with other classes 83
Table 88 – Attributes of Capacity assembly model::TimeSeries 84
Table 89 – Association ends of Capacity assembly model:: TimeSeries with other classes 84
Table 90 – IsBasedOn dependency 86
Table 91 – Attributes of Allocation result contextual model::AllocationResult_MarketDocument 87
Table 92 – Association ends of Allocation result contextual model::AllocationResult_MarketDocument with other classes 87
Table 93 – Attributes of Allocation result contextual model::Auction 88
Table 94 – Attributes of Allocation result contextual model::BidDocument_MarketDocument 88
Table 95 – Association ends of Allocation result contextual model::BidDocument_MarketDocument with other classes 89
Table 96 – Attributes of Allocation result contextual model::BidTimeSeries 89
Table 97 – Attributes of Allocation result contextual model:: Contract_MarketAgreement 89
Table 98 – Attributes of Allocation result contextual model::Currency_Unit 90
Table 99 – Attributes of Allocation result contextual model::Domain 90
Table 100 – Attributes of Allocation result contextual model::MarketParticipant 90
Table 101 – Association ends of Allocation result contextual model:: MarketParticipant with other classes 90
Table 102 – Attributes of Allocation result contextual model::MarketRole 91
Table 103 – Attributes of Allocation result contextual model::Measure_Unit 91
Table 104 – Attributes of Allocation result contextual model::Point 91
Table 105 – Association ends of Allocation result contextual model::Point with other classes 92
Table 106 – Attributes of Allocation result contextual model::Price 92
Table 107 – Attributes of Allocation result contextual model::Reason 92
Table 108 – Attributes of Allocation result contextual model::Series_Period 93
Table 109 – Association ends of Allocation result contextual model::Series_Period with other classes 93
Table 110 – Attributes of Allocation result contextual model::Time_Period 93
Table 111 – Attributes of Allocation result contextual model::TimeSeries 94

iTeh Standards
(https://standards.iteh.ai)
Document Preview
IEC 62325-451-3:2014
https://standards.iteh.ai/catalog/standards/sist/02e9e4e7-4e3e-4e19-9dd7-8f40fb47e9ef/iec-62325-451-3-2014

Table 112 – Association ends of Allocation result contextual model::TimeSeries with other classes 94
Table 113 – IsBasedOn dependency 97
Table 114 – Attributes of Allocation result assembly model::AllocationResult_MarketDocument 98
Table 115 – Association ends of Allocation result assembly model::AllocationResult_MarketDocument with other classes 99
Table 116 – Attributes of Allocation result assembly model::Point 99
Table 117 – Association ends of Allocation result assembly model::Point with other classes 99
Table 118 – Attributes of Allocation result assembly model::Reason 100
Table 119 – Attributes of Allocation result assembly model::Series_Period 100
Table 120 – Association ends of Allocation result assembly model::Series_Period with other classes 100
Table 121 – Attributes of Allocation result assembly model::TimeSeries 101
Table 122 – Association ends of Allocation result assembly model::TimeSeries with other classes 102
Table 123 – IsBasedOn dependency 104
Table 124 – Attributes of Total allocation result contextual model::TotalAllocationResult_MarketDocument 104
Table 125 – Association ends of Total allocation result contextual model::TotalAllocationResult_MarketDocument with other classes 105
Table 126 – Attributes of Total allocation result contextual model::Auction 106
Table 127 – Attributes of Total allocation result contextual model::BiddingParty_MarketParticipant 106
Table 128 – Attributes of Total allocation result contextual model::BidDocument_MarketDocument 106
Table 129 – Association ends of Total allocation result contextual model::BidDocument_MarketDocument with other classes 107
Table 130 – Attributes of Total allocation result contextual model::BidTimeSeries 107
Table 131 – Attributes of Total allocation result contextual model::Currency_Unit 107
Table 132 – Attributes of Total allocation result contextual model::Domain 108
Table 133 – Attributes of Total allocation result contextual model::MarketAgreement 108
Table 134 – Attributes of Total allocation result contextual model::MarketParticipant 108
Table 135 – Association ends of Total allocation result contextual model::MarketParticipant with other classes 108
Table 136 – Attributes of Total allocation result contextual model::MarketRole 109
Table 137 – Attributes of Total allocation result contextual model::Measure_Unit 109
Table 138 – Attributes of Total allocation result contextual model::NoBidAuction_TimeSeries 109
Table 139 – Association ends of Total allocation result contextual model::NoBidAuction_TimeSeries with other classes 110
Table 140 – Attributes of Total allocation result contextual model::Point 110
Table 141 – Association ends of Total allocation result contextual model::Point with other classes 110
Table 142 – Attributes of Total allocation result contextual model::Price 111
Table 143 – Attributes of Total allocation result contextual model::Reason 111
Table 144 – Attributes of Total allocation result contextual model::Series_Period 111

iTeh Standards
(https://standards.iteh.ai)
Document Preview
IEC 62325-451-3:2014
https://standards.iteh.ai/catalog/standards/sist/[illegible]/iec-62325-451-3-2014

Table 145 – Association ends of Total allocation result contextual model::Series_Period with other classes 112
Table 146 – Attributes of Total allocation result contextual model::Time_Period 112
Table 147 – Attributes of Total allocation result contextual model::TimeSeries 112
Table 148 – Association ends of Total allocation result contextual model::TimeSeries with other classes 113
Table 149 – IsBasedOn dependency 115
Table 150 – Attributes of Total allocation result assembly model::TotalAllocationResult_MarketDocument 116
Table 151 – Association ends of Total allocation result assembly model::TotalAllocationResult_MarketDocument with other classes 117
Table 152 – Attributes of Total allocation result assembly model::NoBidAuction_TimeSeries 117
Table 153 – Association ends of Total allocation result assembly model::NoBidAuction_TimeSeries with other classes 118
Table 154 – Attributes of Total allocation result assembly model::Point 118
Table 155 – Association ends of Total allocation result assembly model::Point with other classes 118
Table 156 – Attributes of Total allocation result assembly model::Reason 119
Table 157 – Attributes of Total allocation result assembly model::Series_Period 119
Table 158 – Association ends of Total allocation result assembly model::Series_Period with other classes 119
Table 159 – Attributes of Total allocation result assembly model::TimeSeries 120
Table 160 – Association ends of Total allocation result assembly model::TimeSeries with other classes 121
Table 161 – IsBasedOn dependency 123
Table 162 – Attributes of Implicit auction result contextual model::ImplicitAuctionResult_MarketDocument 124
Table 163 – Association ends of Implicit auction result contextual model::ImplicitAuctionResult_MarketDocument with other classes 124
Table 164 – Attributes of Implicit auction result contextual model::Auction 125
Table 165 – Attributes of Implicit auction result contextual model::Currency_Unit 125
Table 166 – Attributes of Implicit auction result contextual model::Domain 125
Table 167 – Attributes of Implicit auction result contextual model::MarketAgreement 126
Table 168 – Attributes of Implicit auction result contextual model::MarketParticipant 126
Table 169 – Association ends of Implicit auction result contextual model::MarketParticipant with other classes 126
Table 170 – Attributes of Implicit auction result contextual model::MarketRole 126
Table 171 – Attributes of Implicit auction result contextual model::Measure_Unit 127
Table 172 – Attributes of Implicit auction result contextual model::Point 127
Table 173 – Association ends of Implicit auction result contextual model::Point with other classes 127
Table 174 – Attributes of Implicit auction result contextual model::Price 128
Table 175 – Attributes of Implicit auction result contextual model::Reason 128
Table 176 – Attributes of Implicit auction result contextual model::Series_Period 128
Table 177 – Association ends of Implicit auction result contextual model::Series_Period with other classes 129

iTeh Standards
(https://standards.iteh.ai)
Document Preview
IEC 62325-451-3:2014
https://standards.iteh.ai/catalog/standards/sist/...-iec-62325-451-3-2014