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# Retail Markets Co-Ordination Working Group

Wednesday, 4<sup>th</sup> November, 2015

UR Offices

Belfast



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# ReMCoWG Agenda

Agenda Item	Presenter	Time
Introduction	Jessica Gregory ReMCoDS	12:45 – 12:50
ReMCoSG Meeting Feedback	Jessica Gregory ReMCoDS	12:50 – 12:55
Tibco Hub/EMMA Update	Carmel O'Connor, ESNB	12:55 – 13.15
Smart Metering Update	TBC	13:15 – 13:20
Market Design Update	Jessica Gregory ReMCoDS	13:20 – 13:35
ReMCoWG To-Do List Review	Jessica Gregory ReMCoDS	13:35 – 13:40
AOB & Closing	Jessica Gregory ReMCoDS	13:40 – 13:45



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# Approval of Minutes

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Minutes from ReMCoWG meeting  
2<sup>nd</sup> September 2015



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# Update from ReMCoSG Meeting

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There has been no ReMCoSG Meeting since last ReMCoWG.

Next ReMCoSG Meeting 18<sup>th</sup> November



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# ReMCoWG Action Items - Closed

- 3 Actions closed since last ReMCoWG meeting.

AP No.	Title	Org. Assigned to	Date Closed	Date Raised
134	Suppliers to contact Tibco Project if they are interested in engagement from Capita with their Emma configuration	Suppliers	02/09/2015	08/07/2015
135	Suppliers are requested to review DR 1168 and revert back to ReMCoDS with any queries	Suppliers	02/09/2015	08/07/2015
136	ESBN to enquire with CER if the IGG/ReMCoWG documents should be published on the private website	ESBN	02/09/2015	08/07/2015

# ReMCoWG Action Items

- Updated ReMCoWG Action List issued in advance of meeting
  - 2 Actions still open since last ReMCoWG meeting.

AP No.	Title	Org. Assigned to	Date Due	Date Raised
137	Suppliers to send on comments or concerns in relation to the proposed TIBCO Project cutover dates.	Suppliers	04/11/2015	02/09/2015
138	Governance document needs to be reviewed with specific focus on updating the schema release schedule as stated in the document	ReMCoDS	04/11/2015	02/09/2015



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# ReMCoWG

4 November 2015

# AGENDA

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- **Recent Events**
- **Future Plans**



- **Maintain operational stability**
  - No issues since the last meeting

# Recent Events

Start Date	End Date	Planned	Contingency Invoked	Comments	Supplier
24/08/2015	24/08/2015	N	Y	Supplier connectivity issue	Supplier 1
25/08/2015	26/08/2015	N	Y	TIBCO SFA.	Hub
26/08/2015	01/09/2015	N	Y	Supplier connectivity issue	Supplier 2
01/09/2015	01/09/2015	N	Y	Supplier connectivity issue	Supplier 3
02/09/2015	07/09/2015	N	Y	Supplier connectivity issue	Supplier 4
08/09/2015	15/09/2015	N	Y	Supplier connectivity issue	Supplier 5
08/09/2015	08/09/2015	N	Y	Supplier connectivity issue	Supplier 6
13/09/2015	15/09/2015	N	Y	Supplier connectivity issue	Supplier 7
13/09/2015	14/09/2015	N	Y	Supplier connectivity issue	Supplier 6
13/09/2015	14/09/2015	N	Y	Supplier connectivity issue	Supplier 8
21/09/2015	21/09/2015	N	Y	Supplier connectivity issue	Supplier 9
23/09/2015	27/09/2015	N	Y	Supplier connectivity issue	Supplier 5
24/09/2015	24/09/2015	Y	Y	Server patching	Supplier 10
24/09/2015	24/09/2015	N	Y	Supplier connectivity issue	Supplier 11
26/09/2015	27/09/2015	Y	Y	DR Testing	Hub
27/09/2015	16/10/2015	N	Y	Supplier connectivity issue - IP Address issue	Supplier 5
29/09/2015	14/10/2015	N	Y	Supplier connectivity issue - ISP problems	Supplier 12
01/10/2015	01/10/2015	N	Y	Supplier connectivity issues	Supplier 6
01/10/2015	01/10/2015	Y	Y	Supplier connectivity issues	Supplier 1
05/10/2015	07/10/2015	Y	Y	Supplier connectivity issues	Supplier 7
08/10/2015	09/10/2015	Y	Y	Supplier connectivity issues	Supplier 2
12/10/2015	12/10/2015	Y	Y	Supplier connectivity issues	Supplier 9
15/10/2015	15/10/2015	Y	Y	Supplier connectivity issues	Supplier 13
15/10/2015	15/10/2015	Y	Y	Supplier connectivity issues	Supplier 6
21/10/2015	21/10/2015	Y	Y	Supplier connectivity issues	Supplier 14

No. of Planned Outages	No. of Unplanned Outages	No. of times Contingency Invoked
9	16	25

# Future Plans

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- Outage Dates:
  - 21<sup>st</sup> Nov – RoI only – Click outage will effect RMP Extranet from 8.30-16.30
  - 15<sup>th</sup> Nov – RoI may require an outage for a Database update but has yet to be confirmed



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# TIBCO Upgrade Project

New Hub Message Processing Issue – ReMCoWG Update –

4<sup>th</sup> Nov 2015

- Part of the project System Integration Test phase execution was to compare the same XML message files output by the current TIBCO solution (schema v10) against those output by the new TIBCO solution (schema v11)
- It was confirmed that all fields and values matched (except for version number and timestamp values - as expected). However, the following discrepancies were noticed in the v11 messages that passed through the new Hub:
  - Some decimal and integer fields had values padded out but with leading and/or trailing zeros and/or spaces. Some examples include e.g.
    - " 3683.00000000" instead of "3683"
    - "01" instead of "1"
    - "0.055000000000000" instead of "0.055"
  - The MarketTimestamp value in the header of v11 messages now represents the offset format in +00:00 as opposed to "Z" in the current solution e.g.
    - **Current:** <MessageHeader MessageTypeCode="352R" VersionNumber="10.00.00" MarketTimestamp="2014-11-13T10:45:45.3Z" SenderID="DSO" RecipientID="Sxx" TxRefNbr="0000000309654966" />
    - **New:** <MessageHeader MessageTypeCode="352R" VersionNumber="11.00.00" MarketTimestamp="2014-11-13T10:45:45.3+00:00" SenderID="DSO" RecipientID="Sxx" TxRefNbr="0000000309654966" />

# Why the differences?

- The SAP IS-U central market systems of ESNB and NIE store and output numeric field values with leading and/or trailing zeros or spaces e.g.
  - " 3683.00000000"
  - "01"
  - "0.055000000000000"
- ESNB SAP system outputs the MarketTimestamp offset in the format +00:00 e.g.
  - ="2014-11-13T10:45:45.3+00:00"
- NIE SAP system does not output a MarketTimestamp offset
- The current TIBCO solution uses a native TIBCO Parse XML function to validate messages against the schema – this TIBCO function automatically trims numeric fields of any trailing and leading zeros/spaces. It also applies “Z” offset to date fields where it encounters an offset
- The new TIBCO solution uses a different method to validate messages against the schema – this method does not change any value or data type format it receives, inbound or outbound, as long as the format passes schema validation...

# Why was this approach taken?

- **The current legacy solution uses the TIBCO "Parse XML" activity to validate the inbound message types against the MM schema for both inbound and outbound directions, and has the following drawbacks:**
  - **Lack of Schema Extensibility** - The Parse XML activity requires a "Schema" parameter which is hardcoded and cannot be changed at runtime. If additional MM types are created, the TIBCO project will have to be changed to add a corresponding set of processes and schema resources.
  - **No Code Reuse and Performance implications** - There is no reuse of functionality leading to bloated code and associated maintenance overheads. The Parse XML activity loads the schema resources from the .xsd file into memory for every process call. This is a performance overhead as the .xsd resources are static and are ideal candidates for in-memory caching.
  - **No Preservation of Message Payload** - The TIBCO Parse XML Activity performs a payload validation when the "Validate Output" checkbox is checked. This changes the output data structure as observed during the comparison testing of the XML files between the new and old solution.
- **The new TIBCO solution uses a different approach to validate the inbound message types against the MM schema for both inbound and outbound directions, and has the following advantages:**
  - **Code Reuse and Packaging** - There is a single utility service in the new TIBCO solution. This guarantees code reuse across every message type in both inbound and outbound processing flows aligned with the TIBCO Audit Report recommendations.
  - **Extensibility - Dynamic Resolution of Message Type and xsd** - The following inputs are used to execute the validation including SchemaLocation, Version, MessageTypeCode, isOutboundMessage and Payload. This allows the new solution to resolve the market message type, version and direction at runtime and use the correct set of element / attribute types for validating the xml payload. If changes are made to existing xsd files, or a new market message type is introduced, the relevant schema file is updated / added to the filesystem. There will be no need to change any of the TIBCO or Java related code and components.
  - **Performance Improvements using In-Memory Cache** - The solution contains an in-memory cache. When the validation activity is called for the first time it loads all the xsd files into memory using a collection object. For all subsequent calls, the cache is used to access xsd resources.

- **For both the current and new TIBCO solutions:**
  - All numeric values remain the same – it is only the formats in which these values are passed that may be changed e.g.
    - " 3683.00000000" instead of "3683"
    - "01" instead of "1"
    - "0.0550000000000000" instead of "0.055"
  - All value formats pass schema validation
  - In the case of the MarketTimestamp
- **On that basis, Supplier engagement was required to help evaluate the extent of the issue:**
  - Initial Information Note issued on 24/09 for Supplier consideration
  - Concerns fed back to TUP leading to a further information note issued on 05/10
  - Further Supplier feedback led to a decision to postpone IPT (scheduled for 12<sup>th</sup> Oct.) on Friday 9<sup>th</sup> Oct. subject to further evaluation
  - A full set of test messages (from ESN and NIE) containing value formats in question issued to all on 14/10



- **Further evaluation by Suppliers confirmed:**
  - Some Suppliers would have problems processing numeric values / timestamp offset in the format they may be received
  - Some Suppliers would not have problems
  - Some Suppliers would require a significant amount of time to fully regression test backend systems and processes before knowing
- **Based on the above, it was decided that a change is required to remove the associated risk and three options were identified:**
  1. Change the new TIBCO solution
  2. Change the SAP PI systems of ESBN and NIE
    - SAP IS-U ↔ **SAP PI** ↔ TIBCO Hub
  3. Ask Suppliers to make the required changes

- The three options were analysed against each other and a change to the SAP PI system of ESBN and NIE was the recommended approach on the basis that it is considered a less complex change to implement and can be delivered quicker than a change to the new TIBCO solution

## Summary of evaluation

	TIBCO Change	SAP PI Change	Supplier Changes	Notes
Time to Implement (Weeks)	12	7	?*	*This would require further, detailed evaluation by Suppliers
Impact on IPT / Market Assurance	↔	↔	↔	
Cost	↓	↑	?*	*This would require further, detailed evaluation by Suppliers
Risk	↔	↔	↓	
Aligned with Best Practice Design Principle(s)	↔	↑	↔	
Additional Impact on Suppliers	↔	↔	↓	

- The changes in SAP PI will mirror the behaviour of the current TIBCO solution
- Suppliers will notice no difference in message values/formats Inbound or Outbound



**End**



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# Retail Market Design Update

Jessica Gregory  
ReMCoDS



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# CoBLCR 012 – New and Amended Supplier IDs - ROI

- ❑ **CoBLCR 012** is being proposed by RMDS.
- ❑ Five new Supplier IDs for inclusion in CoBL and 1 amended Supplier.
- ❑ Update COBL Spreadsheet Data Code Data Items “Senders ID” as follows:
  - Add New Data Code Value **S55** with description “**Panda Power Ltd**” and set “Valid in NI” to “No”; Set “Valid in Rol” to “Yes”
  - Add New Data Code Value **S61** with description “**KiWi Power Ireland**” and set “Valid in NI” to “No”; “Valid in Rol” to “Yes”.
  - Add New Data Code Value **S62** with description “**Gaelectric Energy Marketing and Supply Ltd**” and set “Valid in NI” to “No”; “Valid in Rol” to “Yes”.
  - Add New Data Code Value **S64** with description “**Edenderry Supply Company Ltd**” and set “Valid in NI” to “No”; “Valid in Rol” to “Yes”.
  - Add New Data Code Value **S65** with description “**DWL Energy Supply Ltd**” and set “Valid in NI” to “No”; “Valid in Rol” to “Yes”.
  - Amend Data Code Value **S10** with description “**SWS Green Energy Ltd**” to “**Brookfield Renewable Ireland**” and set “Valid in NI” to “No”; “Valid in Rol” to “Yes”.
- ❑ Changes will be applied to the CoBL during a Co-MMR in December 2015.

**At Today’s Meeting:**

Recommendation for Approval by WG



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# DR 1167– Facilitate Energy Efficiencies in Local Authority Public Lighting

## What is proposed in DR 1167

- ❑ The CCMA and TII have requested changes in the Unmetered Public Lighting sector in the Electricity Retail Market in RoI to facilitate energy efficiencies in Local Authority Public Lighting.
- ❑ This request has been submitted to ESB Networks from the Local Government Sector under the auspices of the CCMA/TII
- ❑ New lamp types are proposed to be installed which will have the ability to be pre-programmed to allow for Dimming at specific proportions and at specific times.
- ❑ The CCMA/TII has noted that the consultation process undertaken by them across the local government sector indicated that 11 burn profiles for new Dimming regimes are a minimum requirement for the public lighting providers over the coming years.
- ❑ This Change Request documents the CCMA and TII's top four essential priorities. The seven remaining priorities are not being raised at this time and can be raised in separate change requests at a later date.
- ❑ Additional Burn Hour Calendars for DUoS billing and additional Load Profiles for Data Aggregation are proposed to be introduced in RoI in the Electricity Retail Market.

## At Todays Meeting:

## Recommendation for Approval



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# MCR1168 – Market Messages for Config Changes

## What is proposed in MCR 1168

- ❑ Over the last number of months Energia have witnessed a rise in 331 MMs received from NIE which are meter configuration changes but there are no metering details sent in the XML. This scenario appears to occur specifically where the meter configuration has changed from H100 to H101 and export registers are being added to an existing QH meter by NIE.
- ❑ In previous email discussions NIE have advised that they are unable to send us a 331 with meter details populated. This has resulted in manual work for our business users on the Energia system and the numbers have increased. On 7th May 2015 fifteen 331 XML messages were received in this scenario.
- ❑ This MCR has been requested for NIE to put a fix in place as soon as possible to ensure that suppliers always receive updated metering details via market message for any configuration changes.
- ❑ In this case where export is being added to the existing meter, there is clearly a change here which should be communicated back to the supplier via metering details received in the XML.

## At Todays Meeting:

Recommendation for Approval



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# DR1173 – Vulnerable Customers Implementation in ROI

- ❑ DR contains extensive detail in body of document as well as embedded document. ESNB, via RMDS issued a slide deck detailing changes proposed in the DR.
- ❑ Existing Customer Service Special Needs will be referred to under the Special Services Register (SSR)
  - Customers on this register must not be disconnected for NPA during winter months (period 01 November – 31 March)
  - A new code for Mental Health will be added to the SSR (existing CSSN technical structure)
  - The SSR for ROI will be populated using values available in the customer service special needs field.
- ❑ Existing Medical Equipment Special needs will be referred to under the Priority Services Register (PSR)
  - Customers on this register will never be disconnected for NPA
  - Non Life support/life support are no longer discreet categories but rather are subsumed by the new 14 codes (which are aligned to the codes used in NI)
  - The PSR for ROI will be populated using values available in the medical equipment special needs field.
- ❑ The PSR register (MESN field) must allow for multiple selection of codes. This differs to how the MESN currently operates but is the same as how the existing CSSN functionality operates. This will mean changes to the Schema, CoBL, webforms, MM
- ❑ The extranet will require changes
- ❑ Downloadable Meter point files will require changes to accommodate the new codes and new multiple structure for MESN.

## At Todays Meeting:

For Discussion/Approval

# MCR 69 V2.0 - Mod to XML schema to allow Market Participants communicate with full Irish Character Set

## Reason for Market Change Request

- ❑ To allow Market Participants communicate using the full Irish character set, It is proposed to modify the XML schema to allow all MPs to send and receive the following:  
á, é, í, ó, ú, Á, É, Í, Ó, Ú
- ❑ This will involve an amendment to the definition of the Market Free text type character set.
- ❑ At present the market messaging solution being used in the Retail Electricity market does not allow for the use of Irish Language characters (i.e. the use of the 'fada').
- ❑ This would require a schema change.
- ❑ (Update as of 28.10.15) Participants noted at the IGG on 02.09.15 that when assessing the MCR for implementation, interdependencies between Gas and Electricity Markets will also need to be considered as well as the implications of implementing this MCR in one jurisdiction and perhaps not in the other
- ❑ MCR includes changes and has been re-versioned from v1.0 to v2.0

## At Todays Meeting:

## Recommendation for Approval

# MCR 73 V4.0 Proposal to make first name mandatory on Market Messages

## Original Reason for Market Change Request

- ❑ To ensure that where a supplier provides a 'Person' type name that First Name be considered mandatory. Making first name mandatory would assist in:
  - Improving the quality of customer data held.
  - Making customers in rural areas more readily identifiable, speeding up completion of service orders .

## Proposed Solution

- ❑ Make the first name mandatory on the following messages: 010 , 016 and 017.
- ❑ If first name or last name is not provided where required, then an appropriate error message will issue with a new Reject Reason Code of CNE – Customer Name Error.
- ❑ The reject reason code will be valid on the following messages: 101R,102R,116R and 117.
- ❑ This will require a schema change and significant back end system change. It could also delay processing of CoS, CoLE and Re-energisation.

## New Version following discussion on 02.09.15 notes:

- ❑ MCR discussed at IGG on 02.09.15 in order to re-contextualize for 2015.
- ❑ Eircodes will be introduced to the market systems and will form part of the market design data set from some point in 2016. The introduction of Eircodes should significantly improve the quality of data held. As in other jurisdictions where postcodes have been introduced, data quality and coverage will improve over time
- ❑ It is suggested that the reasons stated above for the implementation of mandatory first names may be achieved through the introduction of Eircodes either completely or partially.
- ❑ MCR includes changes and has been **re-versioned from v3.0 to v4.0**

## At Todays Meeting:

## Recommendation for Approval




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# Assurance Update - TIBCO / Schema Release 2015

Deliverable	Date	Status
<b>Assurance Strategy</b>		
Co-Ordinated Assurance Strategy	12/06/2015	✓
WG Approval of Assurance Strategy	23/06/2015	✓
SG Approval of Assurance Strategy	24/06/2015	✓
Assurance Bodies determine assurance for issue and regression	week of 02/11/2015 (meeting on 04.11.15)	
<b>PQ</b>		
PQ Issue	07/07/2015	✓
PQ Return	08/08/2015	✓
PQ Report to RA's	04/09/2015	✓
PQ Findings and follow up action communicated to MPs	07/09/2015	✓
Anonymised PQ report issued to Market	07/09/2015	✓
Remedial/Follow up action completed by MPs	21/09/2015	✓
PQ addendum issued to RA's	week of 02/11/2015	✓
New PQ covering issue developed, provided, completed and assessed.	during period 02.11.15 - 24.12.15	
<b>Formal Assessment</b>		
ESBN/NIE/Programme FA	16 -18/09/2015	✓
FA report issued to RA's		
New FA covering issue	during period 02.11.15 - 24.12.15	
New FA report / addendum report issued to RA's	by 11.01.2016	

 New activities and/or dates as a result of issue and new timescales



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# Assurance Update - TIBCO / Schema Release 2015

<b>IPT</b>		
IPT workbook v1.0 issued to Market	04/08/2015	✓
IPT workbook v2.0 issued to Market with Data	11/09/2015	✓
IPT workbook v3.0 issued to Market with Data	02/10/2015	✓
MPs set up data in system	09/10/2015	✓
EMMA install Complete	awaiting update - still in progress	
IPT assessed in context of issue. New evidence, scenarios issued - if required issued to market	during period 02.11.15 - 24.12.15	
Pre-IPT connectivity and checking	04.01.16 - 08.01.16	
IPT commences	11.01.2016	
Evidence submitted	during period 11.01.16 - 12.02.16	
<b>Final Report/sign off</b>		
Final co-ordinated report drafted	12.02.16-22.02.2016	
Report issued to RA's	22.02.2016	
RA's confirm go/no go position	26.02.2016	



# MMR & CoMMR December 2015

- ❑ MMR and Co-MMR changes were going to be included into the December TIBCO / Schema Release 2015 Programme cutover.
- ❑ RMDS and ReMCoDS would like to deliver the changes as a separate MMR and Co-MMR taking place on the 4<sup>th</sup> December 2015.
- ❑ The changes to be included, to date, are listed below.  
(Any additional changes will be advised to the Market in advance of the 4<sup>th</sup> December).

MMR	Co-MMR
1 Non Conformance	4 x New CoBLCRs
2 MCRs <ul style="list-style-type: none"><li>- MCR 1150 SFTS Billing v CD</li><li>- MCR 1166 Export Only Supplier</li></ul>	2 Market Message Guides <ul style="list-style-type: none"><li>- 1 RoI Change related to MCR 1156</li><li>- 1 NI MMG Change – Meter Works</li></ul>
	3 Non Conformances
	CoBL revised to v2.6

# Schema Release 2016 - Prioritisation

RoI  
Both

NI

Position	Title		Score
Position	Position	Title	Score
1st	MCR 0175	New Reject Reasons for Address Change Rejection	8.20
2nd	MCR 1096	Customer Service Special Needs – expansion of RoI code set to align with NI practice	7.40
3rd	DR 1167	Public Lighting Proposal	6.60
4th	MCR 1168	Market Messages for Config Changes	6.20
5th	MCR 1114	Post-Harmonisation Sundry Technical Changes to HBL Schema	5.60
6th	DRxxxx	Vulnerable Customer Placeholder DR -	5.20
7th	MCR1154	New Un-metered Tariff for NI	4.00
8th	MCR 0176	Email Address Validation.	2.60
9th	MCR 0069	Irish language character set	1.20
10th	MCR 0073	Proposal to make first name mandatory on market messages.	0.60

Please see full details of the prioritisation results in the Schema Release 2016 Prioritisation Results Document on the RMDS website at the following [Link](#).



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# What's Next? - Schema 2016 – Prioritisation

	Activity	Role	Action	Date
√	Rank each of the changes 1-10 with 1 being your top priority and 10 your least important.	MPs	Return to ReMCoDS by	11.09.15
√	Consolidate and formulate Co-ordinated Market prioritised list.	ReMCoDS	Issue to market by	23.09.15
√	Determine any action required to get prioritised MCR's approved by year end.	ReMCoDS	Formulate plan & communicate by	29.09.15
√	Provide ESN/NIE list of prioritised MCRs for impact assessment.	ReMCoDS	Issue to ESN/NIE	29.09.15
	ESBN/NIE/ReMCoDS suggest proposed package of changes based on prioritisation and dependencies between MCRs. Proposed delivery dates of changes provided	ESBN/NIE/ReMCoDS	Issue to ReMCoDS by	TBD
	Proposed package with delivery dates issued to Market for review & comment	ReMCoDS	Issue to Market 3 weeks prior to WG in Jan	16.12.15
		MP	Make comment/ approve by 1 week prior to WG	06.01.16
	Co-ordinated Market Approval of Schema Package and delivery Date at WG	Market	Approves at WG in January or March WG 2016	13.01.16
	CER/UR approve Schema Package and delivery Date.	CER/UR	Approve in January/March 2016	29.01.16





# Outages

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- ❑ ESB may require the 3<sup>rd</sup> Sunday to be utilised for an outage.
- ❑ ESB will advise via RMDS as per normal outages process.



# ReMCoWG dates & Times 2016

- 2016 ReMCoWG & ReMCoSG Dates

ReMCoWG/IGG/CDA (8 week cycle)	Location	ReMCoSG Teleconference (1 per Qtr) 2pm – 4pm
13th January	Dublin	24 <sup>th</sup> February
9 <sup>th</sup> March	Belfast	
4 <sup>th</sup> May	Dublin	25 <sup>th</sup> May
29 <sup>th</sup> June	Belfast	24 <sup>th</sup> August
31 <sup>st</sup> August	Dublin	
2 <sup>nd</sup> November	Belfast	23 <sup>rd</sup> November

- 2016 Forum timings

	CDA/WG/IGG in Dublin		IGG/WG/CDA in Belfast
CDA	10:15 - 12:15	IGG	10:15 - 12:15
WG	12:45 - 13:45	WG	12:45 - 13:45
IGG	13:45 - 15:45	CDA	13:45 - 15:45



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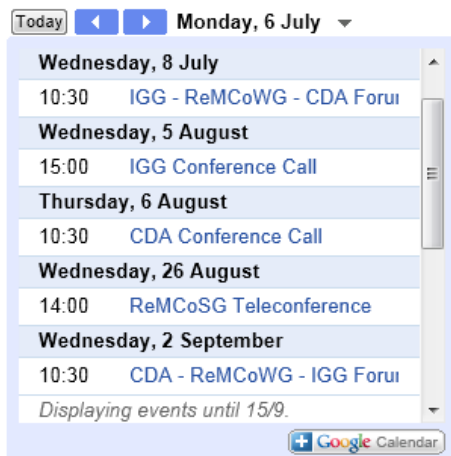


# Next Steps

□ Diary dates for next ReMCoWG meeting:

□ **Wednesday 13<sup>th</sup> January 2016 - Dublin**

Dates included on **Calendar of Events** on  
RMDS website [www.rmdservice.com](http://www.rmdservice.com)



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# ReMCoWG Meeting

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□ AOB



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# ReMCoWG Meeting

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Thank You



QUALITY  
ISO 9001:2008  
NSAI Certified

4<sup>th</sup> Nov 2015

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