

Discussion Request 1207			Cessation of E7 Radio Teleswitching Signal		
Status	Issued to Market	Priority	Medium	Status Date	17/06/2020

Date	Version	Reason for Change	Version Status
17/06/2020	1.0	Issued to Market	Final

Part 1 DETAIL OF DISCUSSION REQUEST / MARKET CHANGE REQUEST			
Requesting Organisation(s)	NIE Networks	Originating Jurisdiction	NI
Request Originator Name	Denis Kelly		
Date Raised	19/05/2020		

Classification of Request			
Jurisdictional Applicability	NI	Jurisdictional Implementation	NI Specific
If jurisdictional implementation is for one jurisdiction only – is the other jurisdiction required to effect any changes?	N/A	Co-Ordinated Baseline Version No.	No Impact
Change Type	Non-Schema Impacting		

Detail of Request
Reason for Request

Background

The idea of using existing national broadcasting infrastructure for sending teleswitching signals was considered back in 1964 and was originally primarily intended for load management, to enable the switching on of large numbers of night storage heaters and water heaters to be staggered to avoid sudden large increases in load as night rate systems cut in. Following the successful conclusion of extensive trials which started in 1979, the relevant authorities approved Radio Teleswitching transmissions on the BBC's national 198 kHz frequency radio broadcasts. Fully operational Radio Teleswitching facilities became available in 1984. Since then it has been developed by Suppliers as a tariffing system.

The Energy Networks Association (ENA) has overall responsibility for the operation, maintenance and development of the system in accordance with the requirements of the companies using the Radio Teleswitching service.

Since the early 2000s the BBC has advised that the broadcasting equipment associated with RTS was becoming obsolete and more difficult to maintain.

The roll out of Smart Metering in GB has now reduced the willingness of the GB Market to further support those interim arrangements.

The proposed switch off date was initially March 2020, however issues with the GB Smart meter roll out in certain areas have forced a limited extension until March 2021.

Current Status

There are approximately 13,000 meters across NI which will require replacement by 2021. Although the range of teleswitched and telemetered DUoS tariffs is relatively small, the variable elements within each create a large number of scenarios that can be encountered on site. Replicating these scenarios using the meters presently available in the market is not possible. Two bespoke models have been successfully procured and tested which will result in a like for like switch with current meters. However, historically teleswitches were not recorded on billing systems in the same way as meters, making them more difficult to locate. The estimated breakdown of the tele-devices is as follows: Telemeters – 4,000, Teleswitches – 9,000.

The teleswitch or telemeter code F,G and H defines the temperature related switching time for weather related space

heating. All other teleswitch or telemeter general codes defines the precise heating load switching time which is manually operated, as well as defines the precise water heading switching time.

Proposed Solution

Weather related space heating control will no longer be possible. Customers will receive a standard 7 hours per night charge to their storage heating. All heating control will effectively switch back to the customer who can regulate their heating through the heating controls. Water heating boost facility in the afternoons will remain at the low rate for those who have a dedicated water heating circuit to facilitate this.

The current Meter Configuration Code (MCC) and DUoS Tariffs which use teleswitches or telemeters are stated below alongside the MCC / DUoS Tariff that they will be switching to:

- MCC N005 Day, Night and (Storage Heating Auto + Water Heating) will no longer be possible and will transfer to MCC N004 Day, Night and (Storage Heating Non Auto + Water Heating).
- DUoS Tariff T015 Economy 7 Rate Automatic Domestic will no longer be sustainable and will be transferred to T014 Economy 7 Rate with Heating Domestic.
- DUoS Tariff T025 Economy 7 Rate Automatic Combined will not be sustainable either; these are relatively small in number as it the old combined grouping but they will have to change to MCC N004 and DUoS Tariff T024 Economy 7 Rate with Heating Combined.
- MCC N007 Day and (Night + Storage Heating Auto) and Water Heating will no longer be possible on the teleswitch and will transfer to MCC N006 Day and (Night + Storage Heat Non Auto) and Water Heating; the DUoS Tariff will stay the same at T054 Domestic – Day / Night / Heat Rate Domestic PPM.
- As MCC N007 will no longer be possible on the teleswitch, the associated current allowable Tariff Configuration Codes (TCC) i.e. 30, 61, 62, 63, 64, 65, 66, 67, 68 and 69 will no longer be available. Note: TCC 30 will still remain available on MCC N006.
- MCC N065 Non-Standard 2 x D01, 1 x N01 & 2 x HT1, MCC N066 Non Standard 2 x D01, 1 x N01 & 1 x HT1 and MCC N067 Non Standard 1 x D01, 1 x N01 & 2 x HT1 will if possible change to MCC N004 if the new meter registers are suitable; however the DUoS Tariff will not change as there is no Auto requirement.
- MCC N099 Non Standard Code Groups where DUoS Tariff is T015 will change to DUoS Tariff T014 and if possible the MCC will revert to MCC N004.
- MCC N005 will no longer be available on DUoS Tariff T034 Economy 7 Rate with Heating Commercial and will transfer to MCC N004 but will stay on DUoS Tariff T034.

The functionality for a Supplier to select either N005 or N007 Meter Configuration Codes will be removed from the Market Website for 010 MM and 030 MM.

The functionality to request either N005 or N007 on a 010 Registration Market Message or 030 MM without using the Market Website will also be removed.

The functionality for a Supplier to select either N005 or N007 Meter Configuration Codes will be removed from the NI Market Webforms for 010 MM and 030 MM. The functionality to request either N005 or N007 for an increased load will also be removed.

A Change of Usage on either 013 MM or 016 MM for N005 sites change of use switches between T015 / T025 / T034 DUoS tariff will be prevented. A 014R MM with ICU – Invalid change of customer Usage will be issued.

The following Register Types will also become obsolete: 27 Night + Storage Heating Auto and 29 Storage Heating + Water Heating Auto. This will mean that the following Time of Use codes and Timeslot codes will also become obsolete: N04 Night (M-S, 1-8 + Heating Auto); and HT2 Heating (Auto M-S 0.5 – 9H + Water Heating 4H Night + 1H Boost) as they are associated with Register Types 27 and 29 respectively.

The DUoS Tariff codes T015 and T025 will no longer be available for Register Types: 22, 23, 24 and 25 and for Time of Use: D01, D02, N01, and N02.

It is not proposed to update the Market Co-ordinated Data Codes documentation nor remove any of the codes due to eventually become obsolete from the NIE Networks central market systems at this time or in the foreseeable future. The rationale for this is as follows:

- The meter exchange rollout and changing of MCCs and DUoS Tariffs as mentioned above will be an ongoing exercise to at least to March 2021*.
- *NIE Networks may discover post March 2021 some Teleswitched/Telemetered meters that will need to be replaced – as mentioned above historically teleswitches were not recorded on billing systems in the same way as meters making them more difficult to locate.
- Some of these codes and their associated data codes e.g. Register Type, Timeslot etc relating to these meter exchanges as mentioned above will need to be populated on some outbound market messages e.g. Timeslot field within the Removed Meter ID segment on 332 MM / 332W MM.
- To facilitate a correction of data in the event of an error.
- To facilitate reverse billing e.g. 300 MM /300W MM which contain the DUoS Group field and the Register Level Information segment.
- NIE Networks can not guarantee that some of the data codes due to become obsolete will not be issued in the future depending on the scenario encountered.

Proposed Implementation / Timeline

Given that the proposed switch off date is imminent i.e. it has been extended to March 2021, NIE Networks propose to take the opportunity to prevent Suppliers from requesting the current MCC N005 and MCC N007 and DUoS Group Tariffs T015 and T025 by implementing a system change on its NI Market Website as soon as possible - as it seems to make practical sense not to allow any new / changes to MCCs N005 or N007 only to change these back again within the short teleswitch/telemeter meter exchange implementation cut-off timeframe / in the future.

Similarly, as new connections / increased loads will not be eligible for MCCs N005 or N007 it is proposed not to permit these MCCs or the DUoS Groups T015 and T025 as soon as possible.

Also, to implement asap - A Change of Usage on either 013 MM or 016 MM for N005 sites change of use switches between T015 / T025 / T034 DUoS tariff will be prevented. A 014R MM with ICU – Invalid change of customer Usage will be issued.

NIE Networks propose that the roll out of this teleswitch/telemeter meter replacement programme will be managed by NIE Networks performing the relevant physical meter exchanges and associated MCC/DUoS Tariff changes followed by the Registered Supplier for that MPRN/Premises retrospectively sending in the relevant 030 MM.

Scope of Change

Jurisdiction	Design Documentation	Business Process	DSO Backend System Change	MP Backend System Change	Tibco	Supplier EIMMA	Schema	Webforms	Extranet/NI Market Website
ROI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Co-Ordinated Baseline Market Design Documents Impacted by Request

Market Messages

Message No.	Message Name	CoBL	ROI	NI
No Impact	No Impact	No Impact	No Impact	No Impact

Data Definitions

No Impact

Data Codes

No Impact at present

Market Message Implementation Guides

ROI	Yes/No	NI	Yes/No
No Impact	Yes	No Impact	Yes

Comments

NI Market Website documentation to be updated
 NI Market Webforms documentation to be updated
 Statement of Charges re T015/T025.

ROI - Market Process Diagrams – MPDs

Market Process Diagram Number	Market Process Diagram Description	Affected
None	None	None

NI - Market Procedures

Market Procedure	Affected
No Impact	No Impact

ROI Guidance Documentation

Document	Version	Affected
No impact		No Impact

ROI Briefing Document

Briefing Document	Affected
No Impact	Y

User and Technical Documents			
Reference	Name	Version	Affected
No impact			No Impact
Part 2 - Performance and Data Changes			
Market Messages volume, processing etc.			
Data			
Details of Data changes e.g. cleansing			

Part 3 - ReMCoSG / CER Approval		
Approved by	ReMCoSG	CER
Comments		