

OID and Generic LED Guidance Document Updates

Unmetered Supplies User Group

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Owner/author	Freya Gardner	Purpose of paper	Decision
Classification	Public	Document version	V1.0
Summary			
<p>Elexon invites the Unmetered Supplies User Group (UMSUG) to review the proposed changes to the Operational Information Document (OID) and two Generic LED Guidance Documents (Customer and Manufacturer). If recommended, the changes will be implemented in Version 24.0 of the OID and Version 4.0 of the Generic LED Guidance Documents.</p>			

1. Charge Code Formatting (removal of spaces)

- 1.1 Charge Codes were originally formatted with spaces between the defining digits, to clearly demonstrate the structure. The spaces were intended to make Charge Codes more user friendly. The spaces were designed to be formatted only, which meant that if you selected a Charge Code cell in the spreadsheets, the 13 digit Charge Codes did not include spaces.
- 1.2 An UMSUG Member advised that a national customer had taken the formatting of the Charge Code at face value and had hard coded the spaces into their inventory system. Elexon is also aware that Unmetered Supply Operators (UMSO) regularly correct customer inventory submissions to ensure the Charge Codes are single 13 digit codes. In March 2021, the UMSUG agreed for the formatted spaces to be removed from the Operational and LED Charge Code Spreadsheets. This was actioned in April 2021.
- 1.3 However, examples of Charge Codes within the Operational Information Document (OID) and Generic LED Guidance Documents still include the spaces, which leads to confusion. One example below;

Festive Lighting

Where the UMSO has agreed the total load of a Festive Lighting installation and the appropriate Switch Regime for the hours of operation, the load shall be entered into the inventory using Charge Code 15 0001 0000 100 (which has a circuit watt rating of one watt) with a No. of Items equal to the total load in watts. For example, if a total load has been agreed as 1,250 watts, the inventory entry is Charge Code 15 0001 0000 100 with a quantity of 1,250 and the relevant Switch Regime.

When the Festive Lighting is no longer in use, i.e. the festival has ceased, it may be represented in the inventory using Charge Code 15 0000 000 100, which has a circuit watt rating of zero.

- 1.4 This paper is seeking an UMSUG recommendation to remove all instances of Charge Code spaces within the UMS Guidance Documents. If recommended, this will be implemented in Version 24.0 of the OID and Version 4.0 of the two Generic LED Guidance Documents (Customer and Manufacturer).

2. Generic LED Charge Code Range (increase from 500 to 700)

- 2.1 The Generic LED Lighting Charge Codes on the Operational Charge Code Spreadsheet start at 4200010000100 and increase to 4205000000100. As a result, Circuit Watts should not exceed 500 in the Manufacturer LED Range Spreadsheet.

- 2.2 There are three Charge Codes included in the Manufacturer LED Range Spreadsheet that exceed the 500 Circuit Watts threshold. One of the Generic LED Charge Code ranges has an upper limit of 699. If a customer includes anything above 500 watts in their inventory, it would fail validation.
- 2.3 This paper is seeking an UMSUG recommendation to increase the Generic LED Lighting Charge Codes to 4210000000100. If recommended, 500 Generic LED Lighting Charge Codes would be raised in the next UMS application cycle and current LED range references to '500' in the OID and Generic LED Guidance Documents would be updated to '1000'. It is unlikely the full range would be required, but increasing the range to '1000' could prevent the need for further updates. This would be implemented in Version 24.0 of the OID and Version 4.0 of the two Generic LED Guidance Documents (Customer and Manufacturer).

3. **OID Valid Combinations of Equipment Charge Codes and Switch Regimes table**

- 3.1 A Meter Administrator notified Exelon that Switch Regimes 383 to 386 are not included in the Valid Combinations of Equipment Charge Codes and Switch Regimes table within the OID. As they are not included in either of the Timeswitch definitions, the table essentially defines them as invalid with all Equipment Charge Codes.
- 3.2 Exelon reviewed the tables within the OID and identified the below Switch Regimes as missing;
- Switch Regime 378 20:00 to 04:00 (GMT)
- Switch Regime 379 05:00 to 09:00 / 15:00 to 01:00 (GMT)
- Switch Regime 382 08:00 to 20:00
- Switch Regime 383 Timeswitch Operation - 12:00 to 23:00
- Switch Regime 384 Timeswitch Operation - 16:00 to 23:00
- Switch Regime 385 Timeswitch Operation - 08:00 to 23:00
- Switch Regime 386 Timeswitch Operation - Dawn to 23:00
- Switch Regime H01-HZZ Variable Power Switch Regime - 5/5
- 3.3 This paper is therefore seeking an UMSUG recommendation to add these Switch Regimes to the Valid Combinations of Equipment Charge Codes and Switch Regimes table. If the below red-lining is recommended, this will be implemented in Version 24.0 of the OID.

	Equipment Type	Lamp/Ballast Charge Codes ending in 100 not for use with VPSR	Lamp/Ballast Charge Codes ending in less than 100	Lamp/Ballast Charge Codes ending in 100 for use with VPSR	School Crossing Patrol Warning Signals	Traffic Equipment (Non Dimming)	Traffic Equipment (Dimming)	Miscellaneous (Non Dimming)	Miscellaneous (Dimming)	Control Host
	Charge Code range	Prefixed 01 to 50	Prefixed 01 to 50	Prefixed 40, 41, 42 or 50. Also any prefixed 14 and 21-33 where physical dimming is possible	Prefixed 7918 or 7947	Prefixed 7901, 7903, 7905 to 7917, 7919 to 7923, 7925 to 7927, 7930 to 7936, 7938 7940, 7942, 7944, 7946, 7948 ¹ , 7952, 7954, 7956, 7957, 7961, 7962 and 60 ²	Prefixed 7902, 7904, 7924, 7928 to 7929, 7937 7939, 7941, 7943, 7945, 7950 to 7951, 7953 ³ , 7955, 7958 to 7960 7963 and 61 ⁴	Codes beginning 800 - 899 except those listed as dimming	Legacy Codes beginning 800 - 899 listed as dimming	815
Switch Regime Type	Switch Regimes	Valid Combination								
Infra-Red Photo Cells (see Note Below) ⁵	100	Yes	No	No	No	No	No	No	Yes	Yes
Full Night Time Switches	200 to 210, 370 & 380	Yes	No	No	No	No	Yes	No	Yes	Yes
Part Night Time Switches	219 to 369, 371 to 379 ² & 381 to 386	Yes	No	No	No	No	No	No	No	Yes
Thermal Photo Cells	400 - 499	Yes	No	No	No	No	Yes	No	Yes	Yes
Single Stage Dimming Devices	500 - 599	No	Yes	No	No	No	No	No	No	Yes
Hybrid Photo Cells	600 - 699	Yes	No	No	No	No	Yes	No	Yes	Yes
Part Night Electronic Photo Cells	700 - 799	Yes	No	No	No	No	No	No	No	Yes
Electronic Photo Cells	800 - 899	Yes	No	No	No	No	Yes	No	Yes	Yes
VPSR	A01-AZZ, B01-BZZ, C01 - CZZ, D01-DZZ, F01-FZZ, and G01-GZZ and H01-HZZ	No	No	Yes	No	No	No	No	No	Yes

3.4 The below Switch Regimes also need to be added to the Valid Combinations of Control Charge Codes and Switch Regimes table;

Switch Regime H01-HZZ Variable Power Switch Regime - 5/5

3.5 If the below red-lining is recommended, this will be implemented in Version 24.0 of the OID.

	Description		Time Switch Controls	Thermal Photocells	Hybrid Photocells	Electronic Photocells	Electronic Photocells (Latching relay) [Discontinued]	Infra-Red Photocells	Electronic Photo-Cell Timeswitch [Discontinued]	Electronic Controls (e.g. CMS devices) ^a	VPSR Controls and Controls integral to Ballasts
CMS and mCMS	990-999		No	No	No	No	No	No	No	Yes	No
	Equipment Code		91	92	93	94	95	96	97	98	99
Switch Regime Type	Switch Regime	Valid Combinations									
VPSR – Photocell Controlled	A01-AZZ, B01-BZZ, D01-DZZ, F01-FZZ and, G01-GZZ and H01-HZZ		No	Yes	Yes	Yes	Yes	No	Yes	No/Yes	Yes
VPSR – Timeswitch Controlled	C01-CZZ		Yes	No	No	No	No	No	No	No	Yes

4. Recommendations

4.1 We invite the UMSUG to:

- REVIEW** the proposed changes; and
- AGREE** to recommend the changes for implementation in Version 24.0 of the OID and Version 4.0 of the Generic LED Guidance Documents (Customer and Manufacturer).

For more information, please contact:

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