

### 4.3 CP Form

<b>Change Proposal – BSCP40/02</b>	<b>CP No: CP1589</b> <i>Version No: 1.0</i>
<p><b>Title</b> Change the number of characters used to specify Market Participant Role Codes in the Market Domain Data</p>	
<p><b>Description of Problem/Issue</b> The ‘Market Participant Role Code’ is a single character alphanumeric value which is used as a unique identifier for certain Market Roles.</p> <p>It is defined in Market Domain Data (MDD) Entity 21 “Market Role”<sup>1</sup> and is used:</p> <ul style="list-style-type: none"> <li>• in the main body of six Market Messages sent across the DTN (as the J0001 Data Item): <ul style="list-style-type: none"> <li>▪ D0269 Market Domain Data Complete Set v002 (BSC-owned)</li> <li>▪ D0269 Market Domain Data Complete Set v004 (BSC-owned)</li> <li>▪ D0270 Market Domain Data Incremental Set v002 (BSC-owned)</li> <li>▪ D0270 Market Domain Data Incremental Set v002 (BSC-owned)</li> <li>▪ D0383 Notification of Commissioning Information (BSC-owned)</li> <li>▪ D0331 Update Green Deal Market Data (REC-owned)</li> </ul> </li> <li>• in the definition of other MDD Entities</li> <li>• in the header of all Market Messages sent across the Data Transfer Network (DTN) to define the sender and the recipient – but this would only impact those DTN Users using the ‘Fixed File’ format.</li> </ul> <p>Currently, there are only 36 available Market Participant Role Codes:</p> <ul style="list-style-type: none"> <li>• Letters A to Z inclusive; and</li> <li>• Numbers 0 to 9 inclusive.</li> </ul> <p>BSCCo is aware that the 36 available alphanumeric Market Participant Role Codes are:</p> <ul style="list-style-type: none"> <li>• currently in use; or</li> <li>• have been reserved by the Market Wide Half Hourly Settlement (MHHS) Programme;</li> <li>• would be required in June 2024 for Retail Energy Code (REC) CP R0043 (if approved).</li> </ul>	

<sup>1</sup>MDD Entity 21 will become Industry Standing Data (ISD) Entity 21 from the beginning of the MHHS Programme Transition Period

**Proposed Solution**

Amend the Logical Format of the 'Market Participant Role Code' in MDD from 'Char(1)' to 'Char(2)' in BSC documentation.

This solution would also require a change to the REC's Energy Market Data Specification (EMDS) change the 'Logical Length' and the 'Physical Length' of the 'Market Participant Role Code Data Item' (J0001).

Note that a REC CP is not required to be raised to amend the J0001 as this is a "BSC-owned" Data Item, so only requires approval through BSC governance.

This change will also ultimately impact all DTN users, as the 'Market Participant Role Code' is used in the Headers of all Market Messages sent across the DTN to define the sender and the recipient.

However, Electralink has informed BSCCo that only those DTN users that use the "Fixed File Format" would need to change their systems for this CP, as they would need to "pad" the existing one-character Role Codes to 'Char(2)', whereas the "Pool File Format" and "Variable File Format" will be able to accommodate one-character and two-character Role Codes without change.

**Electralink Analysis of impact of Proposed Solution on DTN Users****Role CHAR Field Length Extension:**

The feasibility of extending the role CHAR field length to two CHARs is possible for Variable and Pool flow transfer formats. In these formats, the field is considered variable length, and the vertical bars (|) mark the start and end of the data. If the role is defined as Char(2), DTS will accept one or two characters without the need for any preceding space (padding). It is important to note that all single and double CHAR roles must always be in uppercase as there is no allowance for lower casing in the flow header, as per current DTS customer specifications.

**Handling of Single CHAR Entries:**

In Variable and Pool flow transfer formats, a single CHAR entry in the role field will not be preceded by a space, as this is not required. The preferred representation for a single character role is |X|, without any preceding space. A preceding space for single CHAR roles would cause issues with the systems for DTS customers, and therefore, it should be avoided.

**Fixed Format:**

For Fixed flow transfer format, the field length is required to be fixed at two characters. Therefore, in Fixed format, any one-character role field must be padded with a space to meet the fixed width requirement. The file specification mandates that CHAR(n) fields are left justified and padded to the specified length with trailing spaces. However, it's important to note that the trailing spaces will be automatically removed before the value is used, as per current DTS customer specifications.

**Justification for Change**

This change is necessary to allow BSCCo to allocate new Market Participant Role Codes when required. Without this change, no new Market Participant Role Codes could be allocated, which would be a significant impediment to the implementation of new Electricity Market solutions.

BSCCo must be in a position to allocate new Market Participant Role Codes when required, or this could be a significant impediment to the implementation of new Electricity Market solutions.

Changing the Market Participant Role Code from Char(1) to Char(2) would make many new Market Participant Role Codes available.

### **Potential Alternative Solutions investigated**

As the change to the J0001 would ultimately impact all DTN users, BSCCo has investigated all possible alternative solutions that would have a lesser impact on the industry. There were two possible approaches identified:

- Using uppercase and lower case versions of the same letter to represent different Role Codes; and
- Using “Special Characters” included in the DTN User Guide

BSCCo has discussed both approaches with Electralink, who have said that only one Special Character could be used in DTN file Headers - the hyphen ('-').

Having only one new Role Code available to BSCCo would not be sufficient to mitigate the risk, as there is one BSC Modification (P442) in progress which, if approved would require a new Market Participant Role Code.

### **Electralink's rationale:**

#### Re upper-case and lower-case letters

The DTN will accept both upper- and lower-case characters in the main body of DTN flows, and can distinguish between them. However the DTN requires upper-case characters for flow header information.

So the flow header below for a file from SVAA to a Supplier would pass validation, as it had upper-case Role Codes ('G' and 'X'):

```
'ZHD|0055847961|D0296001|G|CAPG|X|EGDX|20231031094617|||OPER'
```

But the flow header below for the same file would fail validation, as it had lower-case Role Codes ('g' and 'x'):

```
'ZHD|0055847961|D0296001|g|CAPG|x|EGDX|20231031094617|||OPER'
```

So, it's only in flow headers and trailers where the DTN distinguishes between upper and lower case and not the main data within the group lines of the flow.

#### Re Special Characters

Historically, as part of the design, none of the data items in the header has ever required special characters since these were not part of the specifications issued and agreed by the industry. The DTN was built according to the specifications and requirements agreed by industry bodies at the time of inception. Customers' own Flow creation tools that process flow headers may not allow this either since they'll also be built according to industry specifications.

**To which section of the Code does the CP relate, and does the CP facilitate the current provisions of the Code?**

N/A

**Estimated Implementation Costs**

BSC Configurable Item - £1k

BSC Central Systems – TBC (IA pending)

Industry systems – to be identified in CP IA.

**BSC Configurable Items Affected by Proposed Solution(s)**

- BSCP509 Appendix 1 (see Attachment 1)
- BSCP509 Appendix 2 (see Attachment 2)
- SVA Data Catalogue Volume 2 (see Attachment 3)

**Impact on Core Industry Documents or System Operator-Transmission Owner Code**

REC EMAR Data Specification – proposed change specified in Attachment 4

The Market Participant Role Code is also used to specify the Sender and the Recipient in the header of all Market Messages sent over the DTN.

**Related Changes and/or BSC Releases (mandatory by BSCCo)**

None.

**Requested Implementation Date (mandatory by originator)**

7 November 2024, the implementation date for the November 2024 Release of BSC Systems.

**Reason:** November 2024 will give participants over 6 months from SVG decision to implement the change.

**Version History (mandatory by BSCCo)**

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**Attachments:** *N*