SEC Modification Proposal

**DCC Impact Assessment (****IA) - FINAL**

* **Mod Proposal Ref:** **SECMP 0011**
* **Mod Proposal Title: Including the MAP ID in the Smart Metering Inventory**
* **Mod Path: Path 2 - Authority determination**

|  |  |
| --- | --- |
| Version: | 3.1 |
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| Author: | DCC |
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# Introduction

## Document Purpose

The purpose of this DCC Impact Assessment (IA) is to provide the relevant Working Group with the information requested in accordance with SEC Section D6.9 and D6.10.

**In order to include these modifications in the June 2018 release, we would need an Authority decision by 1 June 2017.**

## Previous information provided by DCC

This Final IA supersedes earlier IA versions.

This IA is provided further to a DCC Preliminary Assessment (PA), which was returned to the Working Group on 16 September 2016.

This document builds on the information previously provided as part of the PA, clarifying and refining the impact of this SEC Modification on DCC.

This DCC Impact Assessment was requested of DCC on 24 October 2016.

## DCC Contact Details

Please raise any queries regarding this DCC Impact Assessment using the contact details provided below.

|  |  |
| --- | --- |
| **Name** | DCC - SEC Modification queries |
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## Modification description

The Proposer of this modification summarises the change as follows:

*Proposal to add Meter Asset Provider Identifier (MAP ID), Meter Operator Identifier (MOP ID), and Meter Asset Manager Identifier (MAM ID) in the Smart Metering Inventory to enable the efficient management of electricity and gas meters by: a) tracking energy supplier’s use of meters; b) tracking the firmware upgrade of meters; c) tracking the removal of meters.*

*The scope of SECMP0011 was refined in the WG2 meeting on 9th May 2016. The Proposer agreed that the Modification Proposal no longer includes adding the MOP and MAM IDs to the Smart Metering Inventory.*

## Requirements

The requirements for this modification have been developed by the Working Group during the Refinement phase. The impact on DCC has been assessed against the Business Requirements and the corresponding draft legal text set out in the Solution Design Document.

Based on the discussions at the Working Group and the Business Requirements as set out in the Solution Design Document referenced above, DCC consider the requirements for SECMP 0011 to be **STABLE** (but still with a risk of change – future updated Solution Design Documents that are published may move the baseline). Where the requirements or SEC obligations set out in the Solution Design Document above change, DCC will be required to carry out further impact assessment.

# Impact on DCC’s Systems, Processes and People

This section describes the impact of SECMP 0011 on DCC’s Services and Interfaces that impact Users and/or Parties.

## Summary

* DCC’s solution for SECMP 0011 will enable
  + Eligible Users to pre-notify DCC of a Meter Asset Provider Participant Code (MAP ID) against new ESME or GSME devices.
  + Users to read back the MAP ID values provided and *for Registered Import Supplier User Roles* to update these values over the life of each Device.
* DCC will store these MAP ID values within its Smart Metering Inventory (SMI)
* The values will be available to display Users on the Self Service Interface (SSI) and as an output data item within relevant existing SSI reports
* Impacted Systems, Processes and People:
  + Primary impacts on DSP Systems within the DCC ecosystem (multiple components)
    - Service Request Processing including DCC User Interface Specification
    - Smart Meter Inventory
    - Self Service Interface
    - Service Management

## Impacts on DCC Services and Interfaces

The following table describes the detailed impacts of SECMP 0011 on DCC’s Systems and processes.

| Ref | Impact on DCC | User or Party Impact |
| --- | --- | --- |
| 001 | **Service Request processing - SRV 12.2 Device Pre Notification (amend)**  Updates to existing DUIS Service Request Variant, SRV12.2 - DevicePrenotification, to enable the support for the provision, store and playback of the new ‘MAP ID’ data item.  The change to SRV 12.2 definition is to include ‘MAP ID’ as an optional parameter for all the Device types within the underlying DSP data model. Further validation checks will be performed in the DSP System to ensure that ‘MAP ID’ is a mandatory data item for ESME and GSME Devices and is invalid via the XML Schema definition to submit this value for all other device types. | New version of the DCC User Interface Specification (DUIS) SEC Subsidiary Document (SSD) and associated DUIS XML Schema to be created by DCC and implemented within both the DCC Systems and User Systems (where required) to support the new ‘MAP ID’ data item and SRV12.2. |
| 002 | **Service Request processing - SRV 8.4 Update Inventory (amend)**  Updates to existing DUIS Service Request Variant, SRV8.4- UpdateInventory, to enable the support for the provision of updates, storage and playback of the new ‘MAP ID’ data item.  The definition of SRV 8.4 will be changed to include a new choice element ‘UpdateMapId’ to allow the Users to update the ‘MAP ID’ for existing ESME and GSME Devices.  Access control for this updated SR would allow either of the following to use this functionality:   * The party that notified the device to DCC where the ESME or GSME is at a status of ‘Pending’ on the Smart Metering Inventory; and * The Registered Supplier where the ESME or GSME is associated to an MPxN and the Device status is no longer ‘Pending’. | New version of the DCC User Interface Specification (DUIS) SEC Subsidiary Document (SSD) and associated DUIS XML Schema to be created by DCC and implemented within both the DCC Systems and User Systems (where required) to support the new ‘MAP ID’ data item and SRV8.4 |
| 003 | **Service Request processing - SR 8.2 Read Inventory (Response section only) (amend)**  Updates to existing DUIS Service Request Variant, SRV8.2 – ReadInventory, to enable the support for the playback to Users of the new ‘MAP ID’ data item.  The change to SRV 8.2 is to display the ‘MAP ID’ in the response data returned to Users; however, there is no change to the input data | New version of the DCC User Interface Specification (DUIS) SEC Subsidiary Document (SSD) and associated DUIS XML Schema to be created by DCC and implemented within both the DCC Systems and User Systems (where required) to support the new ‘MAP ID’ data item and SRV8.2 |
| 004 | **Service Request processing – System Updates and associated design documentation updates (new)**  Updates to DSP Internal System processing to support the updated DUIS definitions noted above  Changes to support the introduction of the additional and updated SRV definitions and associated validation. This will include support for both the new and previous versions of the SRVs.  Infrastructure Impact – additional storage required (8Gb) for the Smart Metering Inventory database due to the additional data item of ‘MAP ID’ for all ESME and GSME inventory records.  Updated DCC Systems design documents to reflect the changes requested by this modification | None |
| 005 | **Service Request processing – validation checks on MAP ID (new)**  Validation checks shall be applied to ensure that the new MAP ID data item is allowed to be populated by Eligible Users only for ESME and GSME Devices; | Updated Service Request Definition of SRV12.2 –Device Pre-notification within the DCC User Interface Specification (DUIS) SEC Subsidiary Document (SSD) and associated DUIS XML Schema. |
| 006 | **Service Request processing – validation checks on MAP ID (new)**  The ‘MAP ID’ is an alpha numeric string between 1 and 4 alphanumeric characters in length and this constraint will be enforced at the DUIS XML schema level. Content validation of incoming values for the ‘MAP ID’ will be on length only and content length restrictions are enforced at the XML schema level and not with specific Response Codes. | Updated Service Request Definition of SRV12.2 –Device Pre-notification within the DCC User Interface Specification (DUIS) SEC Subsidiary Document (SSD) and associated DUIS XML Schema. |
| 007 | **Service Request processing – RBAC (no change)**  It shall be noted that the RBAC rules of SRV 12.2 will remain the same and all types of authorised Users are allowed to submit this SRV as per the existing DUIS definition; | None |
| 008 | **Service Request processing – DUIS versioning and Smart Meter Inventory updates (new)**  If a DUIS v1.0 version of SR12.2 is received (where ‘MAP ID’ is not included within the DUIS XML schema for population) then the ‘MAP ID’ will be set to a default value of “UNK” within the SMI if the device type is ESME or GSME. | A new ‘MAP ID’ default value will be visible to Users in the Smart Metering Inventory when queried via either SRV8.2 – Read Inventory or the SSI Smart Metering Inventory use case |
| 009 | **Smart Meter Inventory – ‘MAP ID’ (new)**  The Smart Meter Inventory within the DSP Systems must be changed to include a new data item – ‘MAP ID’. | None |
| 010 | **Smart Meter Inventory – ‘MAP ID’ default values (new)**  As the change will be deployed as a new release to an already-live system, ESME & GSME devices added prior to the release will not have the new field populated and the ‘MAP ID’ will be set to “UNK” for these existing records within the SMI. | A new ‘MAP ID’ default value will be visible to Users in the Smart Metering Inventory when queried via either SRV8.2 – Read Inventory or the SSI Smart Metering Inventory use case |
| 011 | **Self Service Interface (SSI) – Interface Updates**  DCC internal system changes required to support the addition of ‘MAP ID’ within the SSI. Extended new version of SSI required to be created and implemented within the DCC Systems to support the new ‘MAP ID’ data item | New updated version of SSI will be available to Users with screen updates |
| 012 | **Self Service Interface (SSI) – Display of ‘MAP ID’ data item (new)**  SSI screens and reports concerned with Smart Metering Inventory (SMI) data will be updated to include the new ‘MAP ID’ data item, and this will be dependent on Device type as above i.e. only present for ESME and GSME Device types | New version of the Self Service Interface (SSI) SEC Subsidiary Document (SSD) to include references to the new ‘MAP ID’ data item |
| 013 | **Self Service Interface (SSI) – screen display reports (amend)**  SSI screens and reports concerned with Smart Metering Inventory (SMI) data will be updated to include the new ‘MAP ID’data item, and this will be dependent on Device type as above i.e. only present for ESME and GSME Device types.  New version of SSI required to be created and implemented within the DCC Systems to support the new ‘MAP ID’ data item. | New version of the Self Service Interface (SSI) SEC Subsidiary Document (SSD) to include references to the new ‘MAP ID’ data item. |
| 014 | **Self Service Interface (SSI) – Reporting Specifications (amend)**  Updated report specifications to add ‘MAP ID’ to the display of inventory data as an output data item for ESME & GSME devices in 5 relevant SSI reports (essentially all those which feature Device ID) as follows:   * RSMI\_001 Installation Status Smart Meter Report; * RSMI\_002 Smart Metering Devices Status and Firmware Report; * RSMI\_003 Smart Metering Devices Status and Model Report; * RSMI\_005 Scheduled Service Requests Report; and * RSMI\_007 Device Certificate Report.   Note that “RSMI\_004 Communications with No Attached Devices Report”, although similar to the reports above, does not need amending since it contains only Communications Hub devices and they will not have serial numbers. | Updated Report output available via the SSI to include ‘MAP ID’ data item |
| 015 | **Self Service Interface (SSI) – System Updates and associated design documentation updates (new)**  Updates to DSP Internal System processing to support the addition of ‘MAP ID’ within the SSI.  Updated DCC Systems design documents to reflect the changes requested by this modification | None |
| 018 | **Enterprise Systems Interface - (amend)**  The SMI Device table will be updated to hold a new ‘MAP ID’ data item. There will be an impact on the data items in the Device table which are delivered in ESI-034 Device Extract, as described in section 3.12 Inventory Reporting Database Extracts of the ESI reporting spec.  The impact is that the additional field will need to be documented in the ESI reporting specification, and the new field will be added to the extract query and tested. | None |
| 019 | **Service Management - Training of operational support staff (new)**  General awareness training associated with the changes being made to the DCC Systems and Services, in particular additional training required for Service Desk Staff for the new SRVs. | Support for the new functionality will be provided. |
| 020 | **Service Management – Update Service Management artefacts (amend)**  Updates to Service Management artefacts and processes (e.g. User guides, Service forecasting, Service Desk processes and training).   * DCC User Guide - Self-Service Interface Reporting Specification shall be updated such that ‘MAP ID’ is added to all the SSI reports. * User Guides - General updates / amendments required to operational DCC internal User Guides and working level documentation sets. | User facing guides will be updated to contain guidance on the new functionality. |
| 021 | **Self Service Interface (SSI) – Reporting to support “User’s Backfilling Requirements”.**  Updated report specifications to provide a new SSI report providing information to a User about their backlog of MAP IDs. The purpose is to identify numbers of ESME and GSME devices for which MAP IDs have never been provided to support “User’s Backfilling Requirements”.  For each User, totals will be given for ESME and GSME devices with no MAP IDs where:  • the User which requested the SSI report submitted the ‘Device Pre-notification’ Service Request in respect of ESME and GSME devices with Device Status “pending”;  • the User which requested the SSI report is the Responsible Supplier for ESME or GSME devices with Device Status “whitelisted”, ‘installed not commissioned” or “commissioned”.  The device IDs which meet the search criteria, along with basic information such as device type, will be available in a list. The behaviour of the list will follow standard SSI behaviour, namely the first few will be displayed on screen and the full list will be available for download as a CSV file.   * NB - There are some cases where the device status is not “pending” and so the device would not fall into the first category above, but also there is no MPxN association and hence the Responsible Supplier is not known, so it would not fall into the second category above either. However in these cases it would not be possible to update the inventory with SR8.4, so it is reasonable that these cases would not be included in the backlog of devices for a particular Service User to update. Example device statuses include “withdrawn” and “decommissioned”.   The new SSI report may be requested for a single EUI64 User ID or for all the EUI64 User IDs in a SEC Party & Role.  The SSI Report should be available to all the User Roles which may submit a device pre-notification Service Request 12.2 | Updated Report output available via the SSI to include ‘MAP ID’ data item |

# Impact on Security

This section describes the impact DCC considers SECMP 0011 will have on Security of DCC’s Total System.

DCC has carried out a security risk assessment for SECMP 0011 and determined that **there are no material security risks** associated with the implementation of DCC’s proposed solution.

# Testing Considerations

This section describes the testing phases required to support the implementation of SECMP 0011

## Summary

* DCC will be required to carry out Pre-Integration Testing and System Integration Testing for SECMP 0011
* DCC anticipates that Users will require User Integration Testing to support their implementation of SECMP 0011. DCC asks that the Working Group considers and compiles the User testing requirements for SECMP 0011 with DCC support, to ensure an optimal approach is taken for User Integration Testing for the relevant release.

## Pre-integration Testing

Pre-Integration Testing comprise the tests that each Service Provider performs on its respective System changes, prior to the integration of all Service Provider Systems. DCC has factored the cost of Pre-Integration Testing (including DCC assurance) into this Impact Assessment.

Suggested PIT scope would include:

* Production, review and agreement of a design to enable development;
* Low level design production, development, unit test and any rework to achieve PIT complete status;
* Data generation and loading into the Test environment;
* Execution of System Tests through sufficient iterations to enable PIT complete;
* Design, implementation and execution of FAT scripts in accordance with assurance procedures used for Release 1.2; and
* Achieving PIT complete status and subsequent reporting.

## Systems Integration Testing

Systems Integration Testing (SIT) is the testing of DCC’s Total System, which brings together the component parts of DCC’s System (e.g. DSP and CSP Systems) to allow testing of the end-to-end solution by DCC. The SIT activity is done for every DCC System release and incorporates the test and integration of multiple changes.

Additional SIT is recommended by DCC for a modification of this type. It should however be noted that the scope of SIT is likely to be more focused on regression testing to confirm that the changes applied as part of this modification have not had an impact on the wider DCC Total Systems.

Suggested SIT scope would at a high level typically include:

* System Test script and data design;
* Data generation and loading into a co-ordinated System Test environment;
* Execution of System Tests through sufficient iterations to enable SIT complete.

## User Integration Testing

User Integration Testing enables Users to run specific tests to support their implementation of a change.

DCC expects that User Integration Testing will be required in order to support User implementation of this modification.

Individual changes are collected into a DCC release. In order to achieve more efficient User Integration Testing for all parties, the DCC will coordinate specific testing requirements for all changes that comprise a release and issue a testing release approach document.

# Implementation Timescales and Releases

## Change Lead Times

From the date of approval, (in accordance with Section D9 of the SEC), in order to implement the changes proposed DCC requires a lead time of: **13 months**

This includes twelve months as stated in the DCC Release Management Policy plus an additional one month to allow for integrated release planning. Integrated release planning can only begin once all Authority Determinations have been received for all modifications proposed to be included within each Release.

## Earliest Possible Release

In order to include these modifications in the June 2018 release, we would need an Authority decision by 1 June 2017.

## Consideration against Other Changes

To ensure efficient Releases (resulting in potential cost savings), DCC recommends that this change is included within the same Release as the following SEC Modification proposals:

* SECMP 0004 – ‘Inclusion of Meter Serial Number data item in the Smart Metering Inventory’

Implementing these changes in different Releases will increase the cost of implementation for industry as the changes required for both of these modifications impact the same DCC System components. This means that if they were designed, built and tested at the same time within the same release, efficiencies could be achieved in each of these phases as the resource required to complete the tasks could be better utilised and shared (the same code modules would be opened and amended at the same time and the same SRs would be tested at the same time).

# DCC Costs and Charges

## Cost impact

### Implementation costs

The table below details the cost of delivering the changes and Services required to implement this Modification Proposal.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Implementation costs | | | | | | | | |  |
| Implementation Phase: | **Design** | **Build** | **Pre-Integration Testing** | **System Integration Testing** | | **User Testing** | **Implementation to Live** | | **Total** |
| SECMOD0011 | *£121,400* | *£242,800* | *£242,800* | *£260,000* | *£20,000* | | | *£50,000* | **£937,000** |
| Implementation costs – supplementary information | | | | | | | | | |
| Implementation cost assumptions | 1. *Costs are exclusive of VAT and any applicable finance charges* 2. *Majority of the costs above represent labour costs.* 3. *Costs provided for Design, Build and Pre-Integration Testing are quotes provided by the Service Providers and assuming there is no scope change can be considered the final costs. DCC have reviewed and challenged the costs from the Service Providers to ensure this reflects best price to date.* 4. *Service Providers were asked what the costs for System Integration Testing would be. Their initial estimate was provided and is reflected above. DCC considers that further reductions in these costs may be possible as part of final contract negotiations.* 5. *Costs provided for User Testing and Implementation to Live are an initial estimate created by DCC and may differ from the final costs provided by the Service Providers as part of a contracted solution for the approved release.* 6. *Service Providers were asked what savings could be achieved if this change is ordered and implemented at the same time as SECMP0004 and SECMP0008 Service Providers have indicated that no reduction is expected for Design through to Pre-Integration Testing (costs provided already include optimisation). A reduction of circa 20% in costs can be assumed for System Integration Testing and User Testing and a reduction of circa 33% in costs can be assumed for Implementation to Live.* 7. *User Testing estimates provided above represent an incremental cost to the existing testing arrangements that are in place and provided for by DCC as part of the existing cost base. The testing environment that the DCC provides as part of Testing Services will be open to all User Roles and multiple Users within each User Role to ensure that any User wishing to test this SEC Modification are able to do so. These cost estimates have been provided on the assumption that the test environment would be made available for a minimum of 15 working days to enable Users to test the changes associated with this SEC modification. The User Testing costs assume there will be 15 days of User Testing with up to 10 Users undertaking testing.* 8. *The split of costs between Design, Build and Pre-Integration testing phases has been derived by DCC from the Service Provider submissions.* | | | | | | | | |
| Explanation of Implementation Phases | *DCC’s implementation costs are provided by implementation phases. The following describes the purpose of each phase:*   * *Design: The production of detailed System and Service design to deliver all new requirements.* * *Build: The development of the designed Systems and Services to create a solution (e.g. code, systems, or products) that can be tested and implemented.* * *Pre-integration Testing: Each Service Provider tests its own solution to agreed standards in isolation of other Service Providers. This is assured by DCC.* * *System Integration Testing: All Service Providers’ PIT-complete solutions are brought together and tested as an integrated solution, ensuring all Service Provider solutions align and operate as an end to end solution.* * *User Integration Testing: Users are provided with an opportunity to run a range of pre-specified tests in relation to the relevant change.* * *Implementation to Live Costs: The solution is implemented into production environments and ready for use by Users as part of a live service. This service is subject to implementation costs.* | | | | | | | | |

### On-going operational costs

The table below details the additional cost associated with the on-going operation of the new Systems or Services introduced through this Modification Proposal.

|  |  |  |
| --- | --- | --- |
| Annual on-going operating costs | |  |
| SECMP 0008 | **£0** | |

## Impact on Charges

The following section describes the potential impact on Charges levied by DCC in accordance with the SEC.

DCC notes that SECMP 0011 does not propose any changes to the charging arrangements set out in SEC Section K. DCC has made the assumption that, in the absence of an agreed alternative arrangement by the Working Group, the costs associated with the implementation SECMP 0011 will be allocated to DCC’s fixed cost based and passed through to Parties via Fixed Charges.

Subject to the commercial arrangements put in place to support the relevant Release, DCC expects the increase in Charges associated with the implementation of SECMP 0011 to commence in the month following the modification’s implementation.

## Variation in costs from Preliminary Assessment ROM

DCC notes that the implementation costs (provided in this section) are greater than those presented to the Working Group as part of the Preliminary Assessment (PA). The detailed reasons for the additional costs are still being fully assessed and verified by DCC with our Service Providers. At the point of issue for this Impact Assessment, this detailed verification and challenge activity is still ongoing. However, the high level reasons for the increase are provided below and are expected to be updated with further detail as part of a later submission:

* + **General cost refinement**  
    One purpose of a DCC IA is to provide the cost of implementing this modification – a figure that DCC can contract against. DCC’s IA costs are based upon in-depth analysis of the change resulting from increased scrutiny of requirements and refinement of the proposed solution and the associated cost estimates requested to deliver the identified changes

Service Providers have informed DCC that the previous Preliminary Assessments provided assumed that some costs were incorrectly allocated to the general release overhead and not included as direct costs associated with the specific changes required to design, build and test the proposed solution for this modification proposal. This has led to a significant variation with the Preliminary Assessment Rough Order of Magnitude cost. All future Preliminary Assessments will include the charges necessary to deliver the change in isolation.

* **Change in Requirements**

Additional costs have been included in this IA for the additional requirements added to support the support “User’s Backfilling Requirements”.

# RAID

The detail below provides a summary of the risks, assumptions, issues, dependencies and clarifications observed during the production of a DCC Impact Assessment. DCC requests that the Working Group consider this section and consider any material matters that have been identified during this Impact Assessment phase. Any changes may impact the proposed solution, implementation costs and/or implementation timescales.

## Risks

| Ref | Risk Description | Probability | Impact |
| --- | --- | --- | --- |
| R-001 | **DUIS XML versioning and backwards compatibility** - DCC would strongly recommend to the SEC Panel, Working Group and Wider Industry to fully consider the impacts of this change upon backwards compatibility requirements for DUIS. DCC have within our impact assessment made the assumption that the DCC solution should continue to be made available to Users who do not choose to upgrade their DUIS XML Schema to reflect the changes for this SEC modification and wish to continue sending the existing service requests as per the DUIS XML Schema v1.0.  To support this design principle and recommendation, if a DUIS v1.0 version of SR12.2 –DevicePrenotification is received by the DCC Systems then the ‘MAP ID’ will be set to a value of “UNK” within the Smart Metering Inventory if the device type is ESME or GSME to enable service Users to continue to use the DCC Systems without having to update their User Interfaces and so limit the cost of change associated to this modification for any parties not impacted by the change or wishing to upgrade their DUIS version.  The impact and RISK to Users is that if DUIS versioning is not considered in an appropriate manner then the default position would be that ALL Users would be required to upgrade their messaging interface (DUIS) and associated DUIS XML Schema for the implementation of this modification irrespective of whether or not the changes impacted their business and ways of working with the DCC.  Although not directly asked for within the Working Group business requirements DCC believes that offering this is important as its aligns with the DCC solutions design principles and DCC Licence objections of delivering efficient solutions for industry. | Medium | Medium |

## Assumptions

DCC would like to confirm the validity of assumptions listed below with the Working Group. These assumptions have been used in the creation of this DCC Impact Assessment. Any changes to the assumptions may require DCC to undertake further assessment, prior to the contracting and implementation of this change. Any changes may impact the proposed solution, implementation costs and/or implementation timescales.

| Ref | Risk Description | Assumption Accepted |
| --- | --- | --- |
| A-001 | **Charging methodology -** No changes will be made to Section K of the Smart Energy Code as part of this Modification Proposal. The costs associated with this change will be recovered through Fixed Charges to SEC Parties. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-002 | **Requirements –** Requirement 4 of the Working Group solution states that if a MAP ID that does not fulfil the criteria of length or supported characters is identified then an error indicating the non-compliance shall be returned to the user. This requirement will be met by the content validation rules enforced on the DUIS XML Schema rather than a bespoke error response code. DCC assumes that this solution is acceptable and is in keeping with the existing DUIS design for similar validation. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-003 | **Requirements -** The Import Supplier or Gas Supplier (as applicable) will be responsible for provision and the ongoing accuracy and maintenance of the MAP ID data item to DCC. The Eligible Users notes within the updated Service Request definition for SR8.4 – Update Inventory will be included within DUIS will reflect this. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-004 | **Dependencies on GBCS v2.0 changes – [Linked to Dependency D-001]** The changes proposed by this SEC modification will be built at the same time or later than the changes that are required to support the implementation of the new GBCS v2.0 (BEIS RFC-052 and DCC internal CR194). These changes will build upon the GBCS v2.0 changes designed for as part of this change and therefore the costs associated with RFC-052 have not been assumed to apply to this change. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-006 | **DUIS versioning approach -** This Modification Proposal creates changes to existing SRVs in a system which will be live. DCC notes a Working Group clarification that suggests a “big bang” approach rather than requiring DCC provides backwards compatibility.  One of DCCs design principles is to operate, maintain and support both the current and immediately preceding version of the DCC User Interface Specification. This shall help facilitate Users transition planning to the most up-to-date version of the DCC User Interface Specification by minimising the impact of cost, integration effort and time by acknowledging that different Users shall upgrade to align with new DCC Systems Changes at different times (rather than forced upgrades wherever possible). The timing of User changes to align to a new version of DUIS can be agreed with DCC at a time that suits each User’s business requirements and individual upgrade strategies.  DCC assume support for the current and preceding versions of DUIS will need to be provided with respect to this modification. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-007 | **DUIS Versioning approach -** If a DUIS v1.0 version of SR12.2 is received then the MAP ID data item will be set within the SMI database with a default value of “UNK” if the Device type pre-notified is ESME or GSME | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-008 | **Implementation Approach -** As the change will be deployed as a new release to an already-live system, ESME & GSME Devices added prior to the release will need to have a default value set within the Smart Metering Inventory database for all existing ESME & GSME Devices. DCC will set this value as “unknown”. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-009 | **DUIS XML Schema v1.0 -** DCC will not prevent Users from submitting a SRV 12.2 request using the DUIS 1.0 schema, as there is no mechanism in DUIS 1.0 to inform Users about a decision to withdraw support for a SRV. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-010 | **Implementation Approach -** There will be no bulk upload data acquisition for the population of retrospective ESME and GSME Devices for MAP ID, and Suppliers should use SRV 8.4 Update Inventory to update individual Devices as and when required to update MAP ID values from the default “UNK” value. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-011 | **Testing -** DCC has assumed that this change will be included as part of a larger package of changes (Release). All changes in a Release will be subject to the same timeline for Testing, and analysis of those later phases of implementation and testing should be performed as and when the contents of Releases is finalised. Furthermore, DCC would expect the changes associated with this modification included within a Release to share the cost of that release testing | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-012 | **SRV usage / demand volumes -** There are no business requirements that related to the usage / demand of these new additional or updated Service Requests and/or the expected usage patterns. Making any assessment on volumes of the relevant SRs that may be sent by Users as a result of this change is not possible. An assumption has been made that there will be no additional capacity / bandwidth within the DCC solution to support this set of changes. All usage will fall within the existing capacity profile model. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-014 | **SSI Search Criterion** - The MAP ID will not be enabled as an additional inventory details search criterion in the SSI inventory search function (UC\_Inventory\_001) since a Meter Asset Provider can own many devices and a search using MAP ID as a criterion will result in a very high number of device records. The design considerations of display (and filtering) of these records will need further analysis during the design phase. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-015 | **Validation of MAP\_ID values** - DCC is not required to maintain a master list of MAP IDs to check the validity of a received MAP ID against. DCC will not verify the source, validity and accuracy of the received MAP ID populated within Service Requests by Users. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-016 | **Historic MAP\_ID records -** It is assumed that there are no requirements to maintain the historic MAP ID records associated with the ESMEs and GSMEs. SRV 8.2 and the SSI reports listed in this assessment will only display the current MAP ID associated with the device. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-017 | **Reporting -** It is assumed that there are no requirements for MAP specific reports will be introduced as part of this change using the new MAP\_ID data item. | TB Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16C |
| A-018 | **Reporting -** It is assumed that Supplier ID will not be added in the corresponding SSI reports. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-019 | **SSI reporting.** All SSI reports do not validate MAP\_ID as a user. All SSI RBAC is as per current solution based on SEC Party role only. All reports still available to parties as they are currently. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |
| A-020 | **Requirements scope-** It is assumed that the recording of MOP and MAM identifiers are considered out of scope for this modification. | Yes - Discussed and agreed during presentation of INTERIM IA at WG4 meeting 18.10.16 |

## Issues

| Ref | Issue Description | Severity | Priority |
| --- | --- | --- | --- |
|  |  |  |  |

## Dependencies

| Ref | Dependency | Dependency Accepted |
| --- | --- | --- |
| D-001 | **DUIS versioning [Linked to Assumption A-004] -** There is a dependency on the changes proposed as part of this SEC modification on the DCCs implementation of GBCS v2.0 (implemented via BEIS RFC-052 and DCC CR194) as there are a set of wider changes already identified as being required to the DCC Systems to support multiple versions of DUIS Service Requests that are associated with this change. It is therefore assumed that the DUIS Service Request changes referenced as part of this change and included within this PIA will be implemented either within the same release as this modification or in an earlier release after these changes have been made to ensure that the generic costs for this functionality uplift are not attributed to each SEC modification that requires these global changes. | Yes - Current assumption is that SECMP0004 will be implemented after the content of Release 2.0 (Feb 2018), as the cut off point for Mods to go into the release is in the past.  DCC recommends that this dependency needs to be monitored to ensure that this remains true. |

## Clarifications Required

None

# Appendix A: Variation between assessments

This section describes any instances where DCC’s solution or impacts (with the exception of variations in costs, which is set out in section 6 of this IA) set out in DCC’s PA and IA for this Modification Proposal vary.

In relation to SECMP 0011, DCC confirms that **there is one variation** to the impact or the solution set out in the PA and subsequently this IA. Details of the changes are described below

| Ref | Variation |
| --- | --- |
| VAR-001 | **Additional New Requirement between PA and IA stages**  Additional costs have been included in this IA for the additional requirements to support the support “User’s Backfilling Requirements”. |

# Appendix B: Design Specification Updates

This section sets out DCC’s proposed changes required to design specifications as a result of this Modification Proposal. The changes are proposed indicative changes, designed to support the Refinement of relevant legal drafting to support SECMP 0011.

## DCC User Interface Specification

Latest version: **SEC 5.0 – Appendix AD - DCC User Interface Specification - version 1.0 published by SECAS on 9 November 2016**

Section 3.8 of DUIS will require updates for the amended SRVs as a result of the changes proposed to support this modification.

**Section 3.8.91.4 Read Inventory for SRV 8.2, Specific Data Items in the Response**

Add the following row between the “DeviceModel” and “SMETSCHTSVersion” data items in Table 214 : Device (sr:Device) data items

| **Data Item** | **Description / Allowable Values** | **Type** | **Mandatory** | **Default** | **Units** |
| --- | --- | --- | --- | --- | --- |
| MAPID | The Meter Asset Provider Identifier of the Device (Only applicable to ESME and GSME)  Only applicable to DUIS v2.x or late.  A value of ‘UNKN’ indicates that the Device was Pre-Notified using DUIS Schema Version prior to 2.x | sr:MAPID  (Restriction of  xs:string  (minLength = 1,  maxLength = 4)) | Device Type = ESME or GSME:  Yes  Otherwise:  N/A | None | N/A |

**Section 3.8.93.2 Update Inventory for SRV 8.4, Specific Data Items in the Request**

Add the following row immediately after the “UpdateMPxN” data items in Table 218 : UpdateInventory (sr:UpdateInventory) data items

| **Data Item** | **Description / Allowable Values** | **Type** | **Mandatory** | **Default** | **Units** |
| --- | --- | --- | --- | --- | --- |
| UpdateMAPID | The Meter Asset Provider Identifier of the Device (Only applicable to ESME and GSME)  This data item is free text and is not validated by the DCC  Only applicable to DUIS v2.x or later. | sr:MAPID  (Restriction of  xs:string  (minLength = 1,  maxLength = 4)) | One and only one of these items must be set | None | N/A |

**Section 3.8.93.3 Specific Validation for this Request**

Additional Response Code to be added to the list

|  |  |
| --- | --- |
| **Response Code** | **Response Code Description** |
| E080417 | MAP ID is not applicable to the Device Type |

**Section 3.8.93.4 Additional DCC System Processing**

Additional note (number 5) to be added to the end of this section along the lines of the following;

5. Update MAP ID associated with the Device within the Smart Metering Inventory

1. The functionality of the Service Request allows an Eligible User to update the Device’s MAP ID.
2. This functionality is available to the following Eligible User Roles
   1. If the Device Status is ‘Pending’.
      1. All the Eligible User Roles associated with this Service Request.
      2. Only the DCC Service User who Pre-notified the Device details may update its Serial Number.
   2. If the Device Status is not ‘Pending’.
      1. User Roles EIS and GIS
      2. Only the Registered Supplier may update the Device’s Serial Number
3. This functionality is only applicable to ESME and GSME devices

**Section 3.8.114.2 DevicePrenotification Definition for SRV 12.2, Specific Data Items in the Request**

Add the following row between the “DeviceType” and “SMETSCHTSVersion” data items in Table 248 : DevicePrenotification (sr DevicePrenotification) data items

| **Data Item** | **Description / Allowable Values** | **Type** | **Mandatory** | **Default** | **Units** |
| --- | --- | --- | --- | --- | --- |
| MAPID | The Meter Asset Provider Identifier of the Device (Only applicable to ESME and GSME)  This data item is free text and is not validated by the DCC  Only applicable to DUIS v2.x or later. | sr:MAPID  (Restriction of  xs:string  (minLength = 1,  maxLength = 4)) | Device Type = ESME, GSME: Yes,  Otherwise:  N/A | None | N/A |