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Annex F – Energy Market Data Specification

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Consultation Question

Question F1: Do you agree with the proposed changes to the EMDS to support TI Phase 1b? If not, please identify the relevant section, explain why the change is required, its potential impact and your proposed solution.

Queston F2: Have you identified any additional changes required to the EMDS for TI Phase 1b? Where you propose additional changes, for each additional change, identify relevant section, impact and proposed resolution.

Introduction

1. This annex sets out the proposed changes to the Data Item Catalogue and the Market Message Catalogue required for TI Phase 1b.

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2. The Data Item Catalogue and the Market Message Catalogue are part of the Energy Market Data Specification (EMDS)[1]. The EMDS provides a repository for the data items and market messages used in the energy market.

3. The Data Item Catalogue and the Market Message Catalogue are Category 2 governance documents within the REC and are ject to the standard change management process set out in REC Schedule 5 Change Management. This means that, once these new data items and market messages are implemented into the REC, any person can raise a change, and this will be considered against the REC objectives.

Summary of changes

4. This consultation is limited to the changes required to support TI Phase 1b that are additional to the changes that are being introduced for the TI related interactions with the CCS and the data items and market messages that are being introduced for TI Phase 1a.[2]

5. Responses related to the EMDS updates being prepared for TI interactions with the CCS have been requested through the CCS consultation published on 07 September 2026 and responses related to the EMDS updates for TI Phase 1a were requested through the TI Phase 1a Technical Specification consultation which closed on 17 September 2026.

6. TI Phase 1b requires an update to one market message that was introduced for TI Phase 1a, the introduction of eleven new market messages and four new data items. It also requires changes to three existing data items, including one that was introduced for TI Phase 1a.

7. TI Phase 1b reuses 34 data items that are being introduced to support CCS and are subject to change via the CCS consultation. As part of the implementation activity, references to the relevant TI market message will be included against each applicable CCS data item, to clarify that the data item is used in both CCS

[1] The EMDS is available on the REC Portal at the following link here.
[2] In relation to Data Items, this means that we have only listed the new Market Messages that these Data Items will be used in for TI Phase 1b, rather than the full list of Market Messages, which could include TI Phase 1a and other industry business processes.

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and TI market messages. In addition, where the Item Description or the Data Item Notes for each data item refer specifically to interactions with the CCS, we have updated the text so that it is clear how the data item can also be used for interactions between the TI Energy Supplier and the RTI User. The changes to the CCS data items are shown in red.

8. At this stage, the new data items and market messages have temporary reference identifiers and these will be updated as part of the finalisation of the changes and their incorporated into the REC. All new data items have been given a temporary reference identifier that starts 'DIYYY. The new market messages have been given a temporary reference identifier that starts 'MMXXXX' or MMXXX'.

9. The changes are summarised below, and the remainder of this annex sets out the proposed changes to be introduced into the REC:

    a. **MM80005 – Get Tariff Details Request**: Proposed update to a market message introduced for TI Phase 1. This updates the Value Rule for the Tariff Comments field to require TI Energy Suppliers to populate it with a message to check the meter specific Standard Settlement Configuration (SSC) and Time Patter Regime (TPR) for applicable time pattern where Tariff Pricing Data is dependent on the meter configuration.

    b. **MMXXXX8 – Get MPxN Tariff Details Request**: A new market message for an RTI User to request the Tariff Id for a specific MPxN from a TI Energy Supplier when an account holder has provided permission,

    c. **MMXXXX9 – Get MPxN Tariff Details Response**: A new market message for the TI Energy Supplier to provide an RTI User with the Tariff Id for a specific account holder's premises when that account holder has provided permission, and

    d. **MMXXX10a – SSF TI Transmitter Configuration Request**: A new market message for an RTI User to request specific TI Shared Signals Framework (SSF) endpoints from a TI Energy Supplier to facilitate stream creation, verification and TI Event Notification.

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e. **MMXXX10b – SSF TI Transmitter Configuration Response**: A new market message for a TI Energy Supplier to respond to an RTI User's request for specific TI SSF endpoints to facilitate stream creation, verification and TI Event Notification.

f. **MMXXX10c – TI SSF Notification Registration Request:** A new market message for an RTI User to register with a TI Energy Supplier so that the TI Energy Supplier can, where the account holder has provided permission, send a MMXXX11a – Notification of Event market message.

g. **MMXXX10d – TI SSF Notification Registration Response**: A new market message for the TI Energy Supplier to respond to the MMXXX10c – TI SSF Notifications Request to inform an RTI User that the TI SSF Notification stream is live.

h. **MMXXX10e – SSF TI Verification Request:** A new market message for an RTI User to check that the stream with a TI Energy Supplier remains live for the sending of MMXXX11a – Notification of TI Event market messages.

i. **MMXXX10f – SSF TI Verification Response:** A new market message for a TI Energy Supplier to confirm to the RTI User that it remains live for the sending of MMXXX11a – Notification of TI Event market messages.

j. **MMXXX11a – Notification of TI Event**: A new market message for the TI Energy Supplier to inform the RTI User that there is an event for an MPxN(s) where the account holders has provided permission for the RTI User to be notified.

k. **MMXXX11b – Get TI Event Details Request**: A new market message for the RTI User to request details of the event that it has been notified of in the MMXXX11a: Notification of TI Event market message.

l. **MMXXX11c – Get TI Event Details Response**: A new market message for TI Energy Suppliers to provide notification to an RTI User of the details of an event in relation to an account holder's premises, when that account holder has provided permission. These notifications relate to when the account holder's existing tariff values have changed, the account holder

has moved to a new tariff, the account holder is switching supplier or is/will no longer be the account holder for a specific premises, and where the supplier is ceasing to be a TI Energy Supplier in relation to the account holder.

m. **DI90061– supplierMpid**: An existing data item in the EMDS. Proposed change to add MMXXXX8 and MMXXX11c as applicable market messages and update the Data Item Notes column to clarify that the YAML Name of '*supplier_mpid*' is to be used in these market messages,

n. **DI90037 – mpxn**: An existing data item in the EMDS. Proposed change to add MMXXXX8 and MMXXX11c as applicable market messages and update the Data Item Notes column to clarify that the YAML Name of '*mpxn*' is to be used in these market messages,

o. **DI80009 – Tariff Id**: Data item introduced as part of TI Phase 1a. Proposed change to add MMXXXX9 to the list of applicable market messages,

p. **DIYYY34 – Tariff Event Type**: A new data item required in the MMXXX11c – Get TI Event Details Response market message,

q. **DIYYY38 – TI Event Timestamp**: A new data item required in the MMXXX11c – Get TI Event Details Response market message,

r. **DIYYY43 – TI Event Effective From Datetime**: A new data item required in the MMXXX11c – Get TI Event Details Response market message,

s. **DIYYY44 – TI Event**: A new data item required in the MMXXX11c – Get TI Event Details Response market message, and

t. **CCS data items used for TI**: These are data items being introduced for CCS that will also be used for TI Phase 1b market messages. Each data item is updated to add a reference to the TI Phase1b market message in which it is used. Where required, additional text has been added to the Item Description column and/or the Data Item Notes column to explain how it is used for interactions between the TI Energy Supplier and RTI User. All additions to the proposed CCS data items are shown in red.

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10. For TI Phase 1a, TI Users obtain TI Energy Supplier endpoints by sending the MM80000 – Get Supplier Tariff Endpoints Request market message and receiving the MM80001 – Get Supplier Tariff Endpoints Response. For TI Phase 1b, this process is moving from one that is managed using a central register provided by RECCo to the CCS Directory. This change is captured in the update to paragraph 1.16 in Schedule 35 (see Annex D) and continues to support public access for all TI Users. As the Schedule 35 transitional arrangements do not apply directly to the EMDS, we will progress a consequential change to remove these market messages at the point that TI Phase 1b goes operationally live in November 2027.

11. RTI Users have been referenced in the TI EMDS changes as market participants that can send and receive TI related market messages. A consequential change is therefore required to the REC Standards Definition Document[3] to include RTI Users as identified market participants for this purpose. As this is also required to facilitate the exchange of market messages between the CCS and RTI Users, this change has been proposed in RECCo's consultation on CCS arrangements published on 07 September 2026.

Index of TI Market Messages

12. To support navigation, a full index of the new and updated Market Messages used in the Tariff Interoperability Arrangements for TI Phase 1b are set out below:

Market message reference	**Market message name**
MM80005	Get Tariff Details Request
MMXXXX8	Get MPxN Tariff Details Request
MMXXXX9	Get MPxN Tariff Details Response
MMXXX10a	SSF TI Transmitter Configuration Request
MMXXX10b	SSF TI Transmitter Configuration Response

[3] The Standards Definition Document contains rules for how parties should use and interpret data items and market messages recorded in the Energy Market Data Specification, including those related to Tariff Interoperability.

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MMXXX10c	TI SSF Notification Registration Request
MMXXX10d	TI SSF Notification Registration Response
MMXXX10e	SSF TI Verification Request
MMXXX10f	SSF TI Verification Response
MMXXX11a	Notification of TI Event
MMXXX11b	Get TI Event Details Request
MMXXX11c	Get TI Event Details Response

Index of TI Data Items

13. To support navigation, a full index of the new and updated data items used in the Tariff Interoperability Arrangements for TI Phase 1b, not linked to the data items developed for CCS, are set out below. Where an existing data item is being updated, the change is shown in red.

Data item reference	**Data item name**
DI90061	supplierMpid
DI90037	mpxn
DI80009	Tariff Id
DIYYY34	Tariff Event Type
DIYYY38	TI Event Timestamp
DIYYY43	TI Event Effective From Datetime
DIYYY44	TI Event
DIYYY45	TI Event Information

Index of CCS Data Items

14. A full index of the new CCS data items used in the TI Phase 1b market messages are listed below. As noted above, we will amend each of these data items to add the TI Phase 1b market message(s) that they are used in. In addition, the description and notes for some of these data items will be updated so that they

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apply to interactions between the TI Energy Supplier and RTI User as well as with the CCS. As these data items have been consulted on for CCS, they may be subject to some minor changes. Any updates proposed for TI Phase 1b are shown in red.

Data item reference	Data item name
DICCS001	SSF Specification Version
DICCS002	SSF Issuer
DICCS003	CCS JWKS URI
DICCS004	SSF Supported Delivery Methods
DICCS005	SSF Management Endpoint
DICCS006	SSF Status Endpoint
DICCS007	SSF Verification Endpoint
DICCS008	Authorisation Schemes
DICCS009	Authorisation Schemes Specification URN
DICCS010	SSF Default Subjects
DICCS011	SSF Events Supported
DICCS013	SSF Delivery
DICCS014	SSF Delivery Method
DICCS015	SSF CCS User Delivery Endpoint
DICCS016	SSF Events Requested
DICCS017	SSF Stream Description
DICCS018	SSF Stream ID
DICCS019	Issuer Claim
DICCS020	Stream Audience
DICCS021	SSF Events Delivered
DICCS022	SSF Minimum Verification Interval
DICCS023	SSF Inactivity Timeout

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DICCS024	Correlation State
DICCS025	JWT Identifier Claim
DICCS026	Issued At Time Claim
DICCS027	Audience Claim
DICCS028	Event Subject Identifier
DICCS029	Subject Identifier Format
DICCS030	Subject Identifier
DICCS031	Security Event
DICCS032	Verification Event
DICCS080	Grant Id
DICCS102	Set Transaction Identifier
DICCS104	Event Timestamp

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Appendix A: Update to existing Market Message for TI Phase 1b

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MM80005 – Get Tariff Details Response

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MM80005	Returns details for a specific tariff.		001	

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SV80005	Get Tariff Details Response	Energy Supplier	Tariff Interoperability User	Retail Energy Code Company	`/tariff/{supplier_mpid}/{tariff_id}`	GET

Data Items

Data Item ID	Legacy Reference	Name
DI80006		Tariff Name

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DI80010		Tariff Description
DI80011		Last Modified Tariff
DI90027		fuelType
DI80035		Standing Charge
DI80012		Effective From Rates Dynamic Tariff
DI80013		Effective To Rates Dynamic Tariff
DI80036		Effective From Rates Static Tariff
DI80037		Effective To Rates Static Tariff
DI80014		Unit Price
DI90033		meteringPointEnergyFlow
DI80016		Effective From Tariff
DI80017		Effective To Tariff
DI80020		Tariff Type
DI80021		Tariff Comments
DI80018		Sellable From
DI80019		Sellable To
DI80022		Percentage Green
DI80023		Payment Method
DI80024		LDZ Region
DI50028		GSP Group Id
DI50230		Meter Type
DI80045		Tariff Type of Use
DI80047		Tariff Days
DI80048		Tariff from kWh
DI80049		Tariff to kWh

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SV80005 - Get Tariff Details Response - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
data	SV80005 data	1-1		G									
					1							Tariff Name	
					1							Tariff Description	
					1							Last Modified Tariff	
					1							Effective From Tariff	
					C							Effective To Tariff	This data item should be populated where the tariff is no longer active or has a planned date whereby it will no longer be active.
					1							Sellable From	
					C							Sellable To	This data item should only be populated for tariffs that will no longer be, or are no longer,

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													open to new customers
					C							meteringPointEnergyFlow	To be populated for electricity tariffs only
					1							fuelType	
					1							Tariff Type	
					C							Tariff Comments	Populate with 'check the meter specific SSC and TPR for applicable time pattern' where Tariff Pricing Data is dependent on the meter configuration
					O							Percentage Green	
					C							Payment Method	To be populated where the specific tariff is restricted to certain

													Payment Methods
					1							Standing Charge	
					C							LDZ Region	To be populated when used to differentiate gas tariffs.
					C							GSP Group Id	To be populated for electricity tariffs. Where GSP Group ID is used to differentiate gas tariffs, use instead of LDZ Region.
					C							Meter Type	To be populated where the specific tariff is restricted to certain Meter Types. Multiple

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													Meter Types could be listed against a single Tariff Id.
	SV80005 Rates	1-*			G								
						1						Tariff Type of Use	Populate with 'all' where there is no differentiation based on the type of usage
							C					Tariff Days	To be populated where Tariff Type is Static. Populate with 'All' where there is no differentiation based on days of the week
								C				Effective From Rates Dynamic Tariff	To be populated where Tariff

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													Type is Dynamic
								C				Effective To Rates Dynamic Tariff	To be populated where Tariff Type is Dynamic
								C				Tariff from kWh	To be populated where the Unit Rate differs based on the consumption value (i.e. block tariffs). It should be omitted for other tariff types.
								C				Tariff to kWh	To be populated where the Unit Rate differs based on the consumption value (i.e. block tariffs). It should be

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													omitted for other tariff types. It should be omitted on the final block of a block tariff where there is no upper limit.
								C				Effective From Rates Static Tariff	To be populated where Tariff Type is Static
								C				Effective To Rates Static Tariff	To be populated where Tariff Type is Static
								1				Unit Price	

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Appendix B: New Market Messages for TI Phase 1b

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MMXXXX8 – Get MPxN Tariff Details Request

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MMXXXX8	Request Tariff Id for a specific MPxN.		001	The RTI User must provide an Access Token from the CCS in the header for this message as set out in the TI API Technical Specification. The TI Energy Supplier shall check that Account Holder Permission is granted for the requesting RTI User before issuing data. In the event an MPxN is unknown or Account Holder Permission is not granted, a 404 response is returned.

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method

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SVZZZZ8	Get MPxN Tariff Details Request	Registered Tariff Interoperability User	Energy Supplier	Retail Energy Code Company	/tariff/{supplier_mpid}/mpxn/{mpxn}	GET

Data Items

Data Item ID	Legacy Reference	Name
DI90061		supplierMpid
DI90037		mpxn

To request the Tariff Id for a specific MPxN, send an emply {} JSON body to the relevant TI Energy Supplier Endpoint, including the relevant supplierMpid and mpxn in the route.

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MMXXXX9 – Get MPxN Tariff Details Response

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MMXXXX9	Returns tariff details for a specific MPxN.		001	In the event an MPxN is unknown or Account Holder Permission not granted, a 404 response is returned.

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SVZZZZ9	Get MPxN Tariff Details Response	Energy Supplier	Registered Tariff Interoperability User	Retail Energy Code Company	/tariff/{supplier_mpid}/mpxn/{mpxn}	GET

Data Items

Data Item ID	Legacy Reference	Name
DIYYYY9		Tariff Id

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SVZZZZ9 – Get MPxN Tariff Details Response - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
Data	SVZZZZ9 data	1-1		G									
					1							Tariff ID	

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MMXXX10a – SSF TI Transmitter Configuration Request

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MMXXX10a	Requests the TI Shared Signals Framework configuration details from a TI Energy Supplier so that an RTI User can discover the supported delivery method and stream-management endpoints.		001	Each TI Energy Supplier's relevant Supplier Endpoint will be available to RTI Users via the CCS Directory.

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SVZZZZ10a	SSF TI Transmitter Configuration Request	Registered Tariff Interoperability User	Energy Supplier	Retail Energy Code Company	/.well-known/ssf-configuration	GET

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SVZZZZ10a – SSF TI Transmitter Configuration Request - Message Structure

To retrieve the SSF TI Transmitter Configuration, send an empty {} JSON body to the GET /.well-known/ssf-configuration endpoint.

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MMXXX10b – SSF TI Transmitter Configuration Response

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MMXXX10b	Returns the TI Shared Signals Framework configuration details, including its identifiers, signing-key location, supported events, and stream-management endpoints.		001	

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SVZZZZ10b	SSF TI Transmitter Configuration Response	Energy Supplier	Registered Tariff Interoperability User	Retail Energy Code Company	/.well-known/ssf-configuration	GET

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Data Items

Data Item ID	Legacy Reference	Name
DICCS001		SSF Specification Version
DICCS002		SSF Issuer
DICCS003		CCS JWKS URI
DICCS004		SSF Supported Delivery Methods
DICCS005		SSF Management Endpoint
DICCS006		SSF Status Endpoint
DICCS007		SSF Verification Endpoint
DICCS008		Authorisation Schemes
DICCS009		Authorisation Schemes Specification URN
DICCS010		SSF Default Subjects
DICCS011		SSF Events Supported

SVZZZZ10b – SSF TI Transmitter Configuration Response - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
Body	SSF Transmitter configuration body	1-1		G									

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					1							SSF Specification Version	
					1							SSF Issuer	
					1							CCS JWKS URI	
					1							SSF Supported Delivery Methods	
					1							SSF Management Endpoint	
					1							SSF Status Endpoint	
					1							SSF Verification Endpoint	
					1							SSF Default Subjects	
					1							SSF Events Supported	
Data	Authorisation Schemes Information	1-1			G							Authorisation Schemes	
						1						Authorisation Schemes Specification URN	

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MMXXX10c – TI SSF Notification Registration Request

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MMXXX10c	Asks a TI Energy Supplier to create a shared signals event stream to provide TI Event Notifications.		001	

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SVZZZZ10c	TI SSF Notification Registration Request	Registered Tariff Interoperability User	Energy Supplier	Retail Energy Code Company	/ssf/stream	POST

Data Items

Data Item ID	Legacy Reference	Name
DICCS013		SSF Delivery
DICCS014		SSF Delivery Method

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DICCS015		SSF CCS User Delivery Endpoint
DICCS016		SSF Events Requested
DICCS017		SSF Stream Description

SVZZZZ10c – TI SSF Notification Registration Request - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
Body	TI SSF Notification registration request body	1-1		G									
					0							SSF Events Requested	
					0							SSF Stream Description	
Data	SSF Delivery Information	1-1			G							SSF Delivery	
						1						SSF Delivery Method	
						1						SSF CCS User Delivery Endpoint	

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MMXXX10d – TI SSF Notification Registration Response

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MMXXX10d	Confirms that the shared signals event stream has been created and returns the complete stream configuration held by the TI Energy Supplier.		001	

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SVZZZZ10d	TI SSF Notification Registration Response	Energy Supplier	Registered Tariff Interoperability User	Retail Energy Code Company	/ssf/stream	POST

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Data Items

Data Item ID	Legacy Reference	Name
DICCS018		SSF Stream ID
DICCS019		Issuer Claim
DICCS020		Stream Audience
DICCS013		SSF Delivery
DICCS014		SSF Delivery Method
DICCS015		SSF CCS User Delivery Endpoint
DICCS021		SSF Events Delivered
DICCS011		SSF Events Supported
DICCS016		SSF Events Requested
DICCS022		SSF Minimum Verification Interval
DICCS023		SSF Inactivity Timeout
DICCS017		SSF Stream Description

SVZZZZ10d – TI SSF Notification Registration Response - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
Body	TI SSF Notification registration response body	1-1		G									
					1							SSF Stream ID	

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					1							Issuer Claim	
					1							Stream Audience	
					1							SSF Events Delivered	
					0							SSF Events Supported	
					C							SSF Events Requested	Included when this data item was included in the request.
					0							SSF Minimum Verification Interval	
					0							SSF Inactivity Timeout	
					C							SSF Stream Description	Included when this data item was included in the request.
Data	SSF Delivery Information	1-1			G							SSF Delivery	

						1						SSF Delivery Method	
						1						SSF CCS User Delivery Endpoint	

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MMXXX10e – SSF TI Verification Request

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MMXXX10e	Asks the TI Energy Supplier to send a verification event so the RTI User can confirm that its TI SSF stream is working.		001	RTI User will use the SSF Verification Endpoint provided in MMXXX10b to send this message

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SVZZZZ10e	Verification Request	Registered Tariff Interoperability User	Energy Supplier	Retail Energy Code Company	/ssf/verify	POST

Data Items

Data Item ID	Legacy Reference	Name
DICCS018		SSF Stream ID
DICCS024		Correlation State

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SVZZZZ10e – Verification Request - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
Data	SSF TI verification request body	1-1		G									
					1							SSF Stream ID	
					0							Correlation State	

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MMXXX10f – SSF TI Verification Response

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MMXXX10f	Sends a verification event on an RTI User's shared signals event stream so the RTI User can confirm that the stream is working.		001	

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SVZZZZ10f	Verification Response	Energy Supplier	RTI User	Retail Energy Code Company	{delivery.endpoint_url}	POST

Data Items

Data Item ID	Legacy Reference	Name
DICCS019		Issuer Claim
DICCS025		JWT Identifier Claim
DICCS026		Issued At Time Claim
DICCS027		Audience Claim

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DICCS028		Event Subject Identifier
DICCS029		Subject Identifier Format
DICCS030		Subject Identifier
DICCS031		Security Event
DICCS032		Verification Event
DICCS024		Correlation State

SVZZZZ10f – Verification Response - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
Body	SSF TI verification response body	1-1		G									
					1							Issuer Claim	
					1							JWT Identifier Claim	
					1							Issued At Time Claim	
					1							Audience Claim	
Data	Event Subject Identifier Information	1-1			G							Event Subject Identifier	

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						1						Subject Identifier Format	
						1						Subject Identifier	
Data	Security Event Information	1-1			G							Security Event	
						1						Verification Event	
Data	Correlation State Information	1-1				G							
							C					Correlation State	Included when this data item was included in the request.

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MMXXX11a – Notification of TI Event

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MMXXX11a	A TI Energy Supplier has an Event Notification to provide to an RTI User.		001	TI Energy Supplier shall use the endpoint provided by the RTI User in the SSF CCS User Delivery Endpoint data item as part of the MMXXX10c.

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SVZZZZ11a	Notification of Event	Energy Supplier	Registered Tariff Interoperability User	Retail Energy Code Company	{delivery.endpoint_url}	POST

Data Items

Data Item ID	Legacy Reference	Name
DICCS019		Issuer Claim
DICCS025		JWT Identifier Claim

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DICCS026		Issued At Time Claim
DICCS027		Audience Claim
DICCS0102		SET Transaction Identifier
DICCS028		Event Subject Identifier
DICCS029		Subject Identifier Format
DICCS030		Subject Identifier
DICCS031		Security Event
DIYYYY44		TI Event
DICCS104		Event Timestamp

SVZZZZ11a – Notification of Event - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
Body	Notification of event body	1-1		G									
					1							Issuer Claim	
					1							JWT Identifier Claim	
					1							Issued At Time Claim	
					1							Audience Claim	
					1							SET Transaction Identifier	

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Data	Event Subject Identifier Information	1-1			G							Event Subject Identifier	
						1						Subject Identifier Format	
						1						Subject Identifier	
Data	Security Event Information	1-1			G							Security Event	
						1						TI Event	
Data	TI Event Timing Information	1-1				G							
							1					Event Timestamp	

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MMXXX11b – Get TI Event Details Request

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MMXXX11b	Request to TI Energy Supplier to provide the details of a TI Event		001	The RTI User must provide an Access Token from the CCS in the header for this message as set out in the TI API Technical Specification. Each TI Energy Supplier's relevant Supplier Endpoint will be available to RTI Users via the CCS Directory.

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SVZZZZ11b	Event Details Request	Registered Tariff Interoperability User	Energy Supplier	Retail Energy Code Company	/event-notification/{grant_id}	GET

Data Items

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Data Item ID	Legacy Reference	Name
DICCS080		Grant Id

SVZZZZ11b – Event Details Request - Message Structure

To retrieve the Event Details, send an empty {} JSON body to the GET /event-notifications/{grant_id} endpoint, including the relevant Grant Id in the route.

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MMXXX11c – Get TI Event Details Response

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MMXXX11c	Message to an RTI User with the details of a TI Event.		001	

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SVZZZ11c	Event Details Response	Energy Supplier	Registered Tariff Interoperability User	Retail Energy Code Company	/event-notification/{grant_id}	GET

Data Items

Data Item ID	Legacy Reference	Name
DIYYY38		TI Event Timestamp
DIYYY34		Tariff Event Type
DI90061		supplierMpid

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DI90037		mpxn
DIYYYY9		Tariff Id
DIYYY43		TI Event Effective From Datetime
DIYYY45		TI Event Information
DICCS080		Grant Id

SVZZZ11c – Event Details Response - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
Body	Event details response body	1-1		G									
					1							supplierMpid	
					1							Grant Id	
Data	TI Events Information	1-*			G							TI Event Information	
Data	tariff_change	0-*	To be sent when Account Holder is changing to a new Tariff ID.			G							
							1					Tariff Event Type	
							1					TI Event Timestamp	
							1					mpxn	
							1					Tariff Id	

							1					TI Event Effective from Datetime	
Data	tariff_update	0-*	To be sent when values associated with the Account Holder's Tariff ID are being updated (Static tariffs only).			G							
							1					Tariff Event Type	
							1					TI Event Timestamp	
							1					mpxn	
							1					Tariff Id	
							1					TI Event Effective from Datetime	
Data	account_holder_change	0-*	To be sent when TI Energy Supplier becomes aware that individual who granted Permission is no longer the Account Holder.			G							
							1					Tariff Event Type	
							1					TI Event Timestamp	

							1					mpxn	
							1					TI Event Effective from Datetime	
Data	supplier_change	0-*	To be sent when Account Holder is Switching Energy Supplier			G							
							1					Tariff Event Type	
							1					TI Event Timestamp	
							1					mpxn	
							1					TI Event Effective from Datetime	
Data	supplier_cessation	0-*	To be sent when TI Energy Supplier will no longer provide TI services			G							
							1					Tariff Event Type	
							1					TI Event Timestamp	
							C					mpxn	Must be completed where the TI Energy Supplier will no longer provide notification of events

													for this MPxN but remains a TI Energy Supplier for other MPxN(s)
							1					TI Event Effective from Datetime	

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Appendix C: Update to existing Data Items for TI Phase 1b

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DI90061- supplierMpid

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI90061	This is the MPID associated with the Supplier.	Retail Energy Code Company	4	0	4	String	Within constraints of datatype only		For the Tariff Interoperability Arrangements only, and specifically MMXXXX1, ~~and~~ MMXXXX6, MMXXXX8 and MMXXX11c, the YAML Name is *supplier_mpid*

Market Messages

Market Message
MMXXXX8
MMXXX11c

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DI90037 – mpxn

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI90037	This refers to both an MPAN or MPRN.	Retail Energy Code Company	13	0	13	String	Within constraints of datatype only		For the Tariff Interoperability Arrangements only, and specifically MMXXXX8 and MMXXX11c, the YAML Name is *mpxn*

Market Messages

Market Message
MMXXXX8
MMXXX11c

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DI80009 – Tariff Id

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80009	A TI Energy Supplier specific identifier required to identify each unique set of Tariff Pricing Data e.g. the standing charge and unit rate applicable where relevant factors are combined such as payment method or location.	Retail Energy Code Company	200	0	200	String	A general character string	tariff_id	The defined format reflects the maximum length

Market Messages

Market Message
MMXXXX9
MMXXX11c

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Appendix D: New Data Items for TI Phase 1b

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DIYYY34 – Tariff Event Type

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DIYYY34	Type of Tariff Interoperability Event Notification.	Retail Energy Code Company	21	0	21	String	A general character string	type	

Data Item Enumerations

Value	Description
tariff_change	Change which tariff applies to MPxN
tariff_update	Update to the tariff pricing data
account_holder_change	Customer is no longer the account holder for the premises
supplier_change	Customer has switched Supplier
supplier_cessation	Supplier has opted out of TI arrangements or will no longer be issuing data relating to a specific non-mandatory MPxNs

Market Messages

Market Message
MMXXX11c

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DIYYY38 – TI Event Timestamp

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DIYYY38	The date and time when the event, which is the subject of the specific Tariff Interoperability Event Notification, was identified by the TI Energy Supplier.	Retail Energy Code Company	27	0	27	String	high resolution datetime	event_timestamp	

Market Messages

Market Message
MMXXX11c

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DIYYY43 – TI Event Effective From Datetime

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DIYYY43	The date and time from which the event included in the notification will take / took effect	Retail Energy Code Company	27	0	27	String	high resolution datetime	effective_from	

Market Messages

Market Message
MMXXX11c

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DIYYY44 – TI Event

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DIYYY44	The shared signals event sent by the TI Energy Supplier to notify the RTI User of a TI event.	Retail Energy Code				Object	N/A	https://schemas.recco.com/seceventt/tariff-update	This object groups the related data items shown beneath it within a market message. It does not have a value of its own, but its YAML name appears in the message. The URI shown is indicative. The TI event URI will be defined by RECCo in the TI Security Event Token schema and will be the same for every TI Energy Supplier. Each TI Energy Supplier will include the defined URI under SSF Events Supported (MMXXX10b).

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Market Messages

Market Message
MMXXX11a

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DIYYY45 – TI Event Information

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DIYYY45	The details of the TI event the TI Energy Supplier is notifying the RTI User of.	Retail Energy Code				Object	N/A	events	This object groups the related data items shown beneath it within a market message. It does not have a value of its own, but its YAML name appears in the message.

Market Messages

Market Message
MMXXX11c

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Appendix E: Update to CCS Data Items for TI Phase 1b

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DICCS001 – SSF Specification Version

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS001	The version of the OpenID Shared Signals Framework implemented by the CCS.	Retail Energy Code				String	General character string	spec_version	TI Energy Suppliers will use the same version of the Shared Signals Framework that is implemented by the CCS.

Market Messages

Market Message
MMXXX10b

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DICCS002 – SSF Issuer

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS002	The CCS issuer identifier published in the CCS SSF transmitter configuration. Or In relation to the TI Arrangements, this is the TI Energy Supplier's issuer identifier published in the TI SSF transmitter configuration	Retail Energy Code				String	URI	issuer	

Market Messages

Market Message
MMXXX10b

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DICCS003 – CCS JWKS URI

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS003	The endpoint where the CCS publishes the public keys used to verify tokens it has signed. Or In relation to the TI Arrangements, the endpoint where the TI Energy Supplier publishes the public keys used to verify tokens it has signed.	Retail Energy Code				String	URI	jwks_uri	

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Market Messages

Market Message
MMXXX10b

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DICCS004 – SSF Supported Delivery Methods

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS004	The methods the CCS supports for sending shared signals event notifications. Or In relation to the TI Arrangements, the methods the TI Energy Supplier supports for sending shared signals event notifications.	Retail Energy Code	17		17	String	General character string	delivery_methods_supported	

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Data Item Enumerations

Value	Description
urn:ietf:rfc:8935	Both CCS and TI will only support the push-based delivery of Security Event Tokens over the SSF. This value identifies that only pushed-based delivery is supported.

Market Messages

Market Message
MMXXX10b

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DICCS005 – SSF Management Endpoint

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS005	The endpoint CCS Users use to create, view, update, replace, or delete a CCS SSF stream. Or In relation to the TI Arrangements, the endpoint RTI Users use to create, view, update, replace, or delete a TI SSF stream	Retail Energy Code				String	URI	configuration_endpoint	

Market Messages

Market Message
MMXXX10b

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DICCS006 – SSF Status Endpoint

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS006	The endpoint CCS Users use to view or change the status of a CCS SSF stream. Or In relation to the TI Arrangements, the endpoint RTI Users use to view or change the status of a TI SSF stream.	Retail Energy Code				String	URI	status_endpoint	

Market Messages

Market Message
MMXXX10b

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DICCS007 – SSF Verification Endpoint

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS007	The endpoint CCS Users use to request a CCS SSF stream verification event. Or In relation to the TI Arrangements, the endpoint RTI Users use to request a TI SSF stream verification event.	Retail Energy Code				String	URI	verification_endpoint	

Market Messages

Market Message
MMXXX10b

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DICCS008 – Authorisation Schemes

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS008	The authorisation methods the CCS accepts for access to the CCS SSF management API. Or For the TI Arrangements, the authorisation methods a TI Energy Supplier accepts for access to the TI SSF management API.	Retail Energy Code				Object	N/A	authorization_schemes	This object groups the related data items shown beneath it within a market message. It does not have a value of its own, but its YAML name appears in the message.

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Market Messages

Market Message
MMXXX10b

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DICCS009 – Authorisation Schemes Specification URN

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS009	The standard that defines the authorisation method.	Retail Energy Code	17		17	String	General character string	spec_urn	For the CCS and TI, this is Mutual TLS (mTLS).

Data Item Enumerations

Value	Description
urn:ietf:rfc:8705	Identifies that CCS and TI use Mutual TLS (mTLS) for client authentication.

Market Messages

Market Message
MMXXX10b

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DICCS010 – SSF Default Subjects

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS010	The subjects covered by a CCS SSF stream. A CCS SSF stream covers all of that CCS User's grants from the point each grant is created. Or In relation to the TI Arrangements, the subjects covered by a TI SSF stream. A TI SSF stream covers all of that RTI User's grants from the point each grant is created.	Retail Energy Code	3		3	String	General character string	default_subjects	

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Data Item Enumerations

Value	Description
ALL	For TI, the SSF stream covers all of that RTI User's grants so ALL is always provided.

Market Messages

Market Message
MMXXX10b

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DICCS011 – SSF Events Supported

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS011	The event types the CCS supports through the CCS SSF. Or In relation to the TI Arrangements, the event types the TI Energy Supplier supports through the TI SSF.	Retail Energy Code				String	General character string	events_supported	

Market Messages

Market Message
MMXXX10b
MMXXX10d

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DICCS013 – SSF Delivery

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS013	How and where shared signals events are sent to the CCS User.	Retail Energy Code				Object	N/A	delivery	This object groups the related data items shown beneath it within a market message. It does not have a value of its own, but its YAML name appears in the message.

Market Messages

Market Message
MMXXX10c
MMXXX10d

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DICCS014 – SSF Delivery Method

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS014	The method used to send shared signals events to the CCS User.	Retail Energy Code	17		17	String	General character string	method	

Data Item Enumerations

Value	Description
urn:ietf:rfc:8935	Both CCS and TI will only support the push-based delivery of Security Event Tokens over the SSF. This value identifies that only pushed-based delivery is supported.

Market Messages

Market Message
MMXXX10c
MMXXX10d

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DICCS015 – SSF CCS User Delivery Endpoint

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS015	The endpoint where the CCS User receives shared signals event notifications.	Retail Energy Code				String	URI	endpoint_url	

Market Messages

Market Message
MMXXX10c
MMXXX10d

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DICCS016 – SSF Events Requested

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS016	The types of shared signals events the CCS User asks to receive.	Retail Energy Code				String	General character string	events_requested	

Market Messages

Market Message
MMXXX10c
MMXXX10d

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DICCS017 – SSF Stream Description

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS017	A description of the CCS SSF stream provided by the CCS User. Or In relation to the TI Arrangements, a description of the TI SSF stream provided by the RTI User.	Retail Energy Code				String	General character string	description	

Market Messages

Market Message
MMXXX10c
MMXXX10d

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DICCS018 – SSF Stream ID

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS018	The unique identifier the CCS assigns to a CCS SSF stream. Or In relation to the TI Arrangements, the unique identifier the TI Energy Supplier assigns to a TI SSF stream.	Retail Energy Code				String	General character string	stream_id	

Market Messages

Market Message
MMXXX10d
MMXXX10e

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DICCS019 – Issuer Claim

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS019	The identifier of the party that issued the relevant token, assertion or event.	Retail Energy Code				String	General character string	iss	

Market Messages

Market Message
MMXXX10d
MMXXX10f
MMXXX11a

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DICCS020 – Stream Audience

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS020	The CCS User or users associated with the CCS SSF stream. Or In relation to the TI Arrangements, the RTI User associated with the TI SSF stream.	Retail Energy Code				String	General character string	aud	

Market Messages

Market Message
MMXXX10d

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DICCS021 – SSF Events Delivered

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS021	The types of shared signals events the CCS will send on the stream. Or In relation to the TI Arrangements, the types of shared signals events the TI Energy Supplier will send on the stream.	Retail Energy Code				String	General character string	events_delivered	

Market Messages

Market Message
MMXXX10d

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DICCS022 – SSF Minimum Verification Interval

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS022	The minimum time, in seconds, that must pass between verification requests for the stream.	Retail Energy Code				Number	Integer	min_verification_interval	

Market Messages

Market Message
MMXXX10d

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DICCS023 – SSF Inactivity Timeout

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS023	How long, in seconds, a stream can remain inactive before the CCS pauses it. Or In relation to the TI Arrangements, how long, in seconds, a stream can remain inactive before the TI Energy Supplier pauses it.	Retail Energy Code				Number	Integer	inactivity_timeout	

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Market Messages

Market Message
MMXXX10d

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DICCS024 – Correlation State

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS024	A value used to match a request with the corresponding response event.	Retail Energy Code				String	General character string	state	

Market Messages

Market Message
MMXXX10e
MMXXX10f

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DICCS025 – JWT Identifier Claim

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS025	A unique identifier for the relevant JWT, used to distinguish it and, where applicable, prevent replay.	Retail Energy Code				String	UUID	jti	

Market Messages

Market Message
MMXXX10f
MMXXX11a

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DICCS026 – Issued At Time Claim

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS026	The date and time when the relevant token, assertion, request object or event was issued.	Retail Energy Code	10		10	Number	UNIX	iat	

Market Messages

Market Message
MMXXX10f
MMXXX11a

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DICCS027 – Audience Claim

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS027	The identifier of the intended recipient of the relevant token, assertion or event.	Retail Energy Code				String	General character string	aud	

Market Messages

Market Message
MMXXX10f
MMXXX11a

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DICCS028 – Event Subject Identifier

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS028	Identifies the ID that the shared signals event concerns.	Retail Energy Code				Object	N/A	sub_id	This object groups the related data items shown beneath it within a market message. It does not have a value of its own, but its YAML name appears in the message.

Market Messages

Market Message
MMXXX10f
MMXXX11a

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DICCS029 – Subject Identifier Format

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS029	The format used for the event subject identifier.	Retail Energy Code	6		6	String	General character string	format	For CCS and TI events, the value is opaque and does not reveal information about the subject.

Data Item Enumerations

Value	Description
opaque	opaque – the RFC 9493 Opaque Identifier Format. The identifier carries no structure a receiver may parse. Used for CCS and TI events

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Market Messages

Market Message
MMXXX10f
MMXXX11a

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DICCS030 – Subject Identifier

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS030	The id that the shared signals event concerns. For Permission related shared signal events this will be the Grant Id and for stream related shared signal events this will be the SSF Stream Id.	Retail Energy Code				String	General character string	id	

Market Messages

Market Message
MMXXX10f
MMXXX11a

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DICCS031 – Security Event

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS031	The details of the shared signals event the notification concerns.	Retail Energy Code				Object	N/A	events	This object groups the related data items shown beneath it within a market message. It does not have a value of its own, but its YAML name appears in the message.

Market Messages

Market Message
MMXXX10f
MMXXX11a

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DICCS032 – Verification Event

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS032	The shared signals event sent by the CCS to confirm that a CCS SSF stream can receive events. Or In relation to the TI Arrangements, the shared signals event sent by the TI Energy	Retail Energy Code				Object	N/A	https://schemas.openid.net/secevent/ssf/event-type/verification	This object groups the related data items shown beneath it within a market message. It does not have a value of its own, but its YAML name appears in the message. This URI is fixed by the OpenID Shared Signals Framework 1.0 and is the same for the CCS and for every TI Energy Supplier.

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	Supplier to confirm that a TI SSF stream can receive events.								

Market Messages

Market Message
MMXXX10f

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DICCS080 – Grant Id

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS080	The unique identifier of the Permission grant.	Retail Energy Code				String	UUID	grant_id	

Market Messages

Market Message
MMXXX11b
MMXXX11c

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DICCS102 – Set Transaction Identifier

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS102	Identifies the underlying revocation, query, or Permission verification transaction. Or In relation to the TI arrangements, identifies the TI event notification transaction.	Retail Energy Code				String	General character string	txn	

Market Messages

Market Message
MMXXX11a

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DICCS104 – Event Timestamp

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DICCS104	The date and time when the event took effect at the CCS. Or In relation to the TI arrangements, the date and time when the event took place at the TI Energy Supplier.	Retail Energy Code	10		10	Number	Unix timestamp	event_timestamp	

Market Messages

Market Message
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