RETAIL ENERGY CODE

Tariff Interoperability Arrangements

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SCHEDULE 35

Tariff Interoperability Arrangements

Version: 1.~~0~~1 Effective Date: ~~18 May 2026~~TBC

Domestic Suppliers	Mandatory for (i) Electricity Suppliers; and (ii) those Gas Suppliers that have opted to become (and still remain) a TI Energy Supplier.
Non-Domestic Suppliers	Mandatory for (i) Electricity Suppliers in the circumstances set out in the Electricity Supply Standard Licence Conditions; and (ii) Energy Suppliers that have opted to become (and still remain) a TI Energy Supplier.
Gas Transporters	N/A
Distribution Network Operators	N/A
DCC	N/A
Metering Equipment Managers	N/A
Non-Party REC Service Users	~~N/A~~ Mandatory for CCS Users that are Registered Tariff Interoperability Users

Change History

Version Number	Implementation Date	Reason for Change
v1.0	18 May 2026	Modified by SoS
v1.1	TBC	Initial draft for Tariff Interoperability Phase 1b industry consultation

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New Tariff Interoperability related definitions – to be moved to Schedule 1

The table below sets out additional definitions that are proposed to be added to REC Schedule 1: Interpretations and Definitions. These will supplement the existing definitions used in the REC. Schedule 1 can be found on the REC Portal (here).

Term	Acronym	Definition
Account Specific Tariff Information		means Tariff Data made available via the Tariff Interoperability API relating to a specific Account Holder.
Public Tariff Data		means Tariff Data which is not linked to a specific Account Holder.
REC Developer Portal		means the online portal of that name that is maintained by RECCo and which provides machine-readable developer documentation and technical guidance supporting the implementation and operation of REC governed technical solutions.
TI Developer Portal		means the online portal of that name that is maintained by RECCo and hosted within the REC Developer Portal, which provides machine-readable developer documentation and technical guidance supporting the implementation and operation of the Tariff Interoperability Arrangements.
Registered Tariff Interoperability User	RTI User	means a person registered in accordance with Paragraph 3 of the Tariff Interoperability Arrangements Schedule, enabling access to Account Specific Tariff Information. An RTI User is a type of CCS User.
Registered Tariff Interoperability User Register	RTI User Register	means the register maintained within the CCS Directory which provides a list of RTI Users and RTI User operational data for use in the Tariff Interoperability Arrangements.
Tariff Data		means Tariff Pricing Data, data provided in Tariff Interoperability Event Notifications and any other data shared between Tariff Interoperability Energy Suppliers and Registered

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		Tariff Interoperability Users for the purpose of supporting the Tariff Interoperability Arrangements, in accordance with the Tariff Interoperability Arrangements Schedule.
Tariff Interoperability Arrangements Schedule		means REC Schedule 35.
Tariff Interoperability Event Notification	TI Event Notification	means a notification provided to an RTI User in accordance with Paragraph 2.16 of the Tariff Interoperability Arrangements Schedule.
Tariff Interoperability Shared Signals Framework	TI SSF	means the mechanism to enable receipt of Tariff Interoperability Event Notifications as described in the Tariff Interoperability Arrangements Schedule.
Tariff Interoperability SSF Notification	TI SSF Notification	means a notification provided to an RTI User under the TI SSF.

Amended Tariff Interoperability related definitions – to be applied to Schedule 1

The table below sets out existing definitions from REC Schedule 1: Interpretations and Definitions, which will require amendment to support TI Phase 1b implementation.

Term	**Acronym**	**Definition**
Tariff Interoperability Application Programming Interface (API)	TI API	means any application programming interface developed by TI Energy Suppliers, TI Users and RTI Users to enable exchange of Tariff Data in accordance with ~~defined within~~ the TI ~~API Technical Specification~~Arrangements.
Tariff Interoperability API Technical Specification	TI API Technical Specification	~~means the Category 3 Product of that name that describes the specification for Tariff Interoperability APIs and other technical requirements.~~ means the document of that name forming part of the Technical Specification that describes the specification for Tariff

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		Interoperability APIs and other technical requirements applicable to TI Energy Suppliers, TI Users and RTI Users.
Tariff Interoperability Arrangements	TI Arrangements	means the arrangements described in the Tariff Interoperability Arrangements Schedule to facilitate the sharing of Tariff ~~Pricing~~ Data in accordance with the Tariff Interoperability Licence Condition.
Tariff Interoperability Energy Supplier	TI Energy Supplier	means either: (a) an Electricity Supplier which is required by its Energy Supply Licence to provide Tariff ~~Pricing~~ Data under the Tariff Interoperability Arrangements; or (b) an Energy Supplier which is not required by its Energy Supply Licence to provide Tariff ~~Pricing~~ Data but has: (i) notified its intention to participate in the Tariff Interoperability Arrangements in accordance with Paragraph ~~1.7~~1.11 of the Tariff Interoperability Arrangements Schedule; and (ii) not given notice to cease participating in the Tariff Interoperability Arrangements in accordance with Paragraph ~~1.8~~1.12 of the Tariff Interoperability Arrangements Schedule.
Tariff Interoperability Market Messages		means the Market Messages used to request and share Tariff ~~Pricing~~ Data, as defined within the Data Specification. For the purpose of this definition and the exchange of Market Messages, ~~a~~ Tariff Interoperability Users and Registered Tariff Interoperability Users shall each be treated as if they were ~~it was~~ a Market Participant.
Tariff Interoperability Supplier Register	TI Supplier Register	means either: (a) before the ASTI Go-Live Date, the register held by RECCo, detailing the Supplier Endpoints for each Tariff Interoperability Energy Supplier required or choosing to share Tariff Data under the Tariff Interoperability Arrangements; or (b) on or after the ASTI Go-Live Date, the register held within the CCS Directory detailing the Supplier Endpoints for each Tariff Interoperability Energy Supplier

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		required or choosing to share Tariff Data under the Tariff Interoperability Arrangements. ~~the register held by RECCo, detailing the Supplier Endpoints for each Tariff Interoperability Energy Supplier required or choosing to share Tariff Pricing Data under the Tariff Interoperability Arrangements.~~
Tariff Interoperability User	TI User	means any ~~individual or organisation~~person that ~~which~~ wishes to access the Public Tariff Data.

CCS related definitions proposed to be used in Schedule 35

The table below sets out the new CCS definitions that we also propose to use in the updates to Schedule 35 for TI Phase 1b. These definitions are taken from the CCS consultation published by RECCo on 07 September 2026 and where relevant, the defined terms have been updated to reflect RECCo's latest thinking following consultation. If following further review of consultation responses RECCo determine that a defined terms is no longer required for CCS, but we still consider that it is needed for TI Phase 1b, we propose to introduce that definition through the TI changes.

Term	Acronym	Definition
Access Token		means the token issued by the CCS, containing information relating to the Permission granted by the relevant Energy Data Subject, and used by an Authorised Third Party to request data from an Energy Data Holder in accordance with the CCS Arrangements Schedule.
Account Holder		means, for each Registrable Measurement Point, the person or persons identified by the Registered Energy Supplier as the bill payer for that Registrable Measurement Point.

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Account Specific Tariff Information Go-Live Date	ASTI Go-Live Date	means the go-live date of the provisions of the CCS Arrangements Schedule which apply in relation to RTI Users and/or Account Specific Tariff Information, as per paragraph 1.4 of the CCS Arrangements Schedule.
Authorised Third Party	ATP	means a person that has been (and remains) accredited under paragraph 3 of the CCS Arrangements Schedule to access and use data (subject to obtaining the Permission of the Energy Data Subject).
CCS Account Holder Verification		means the process for verifying that an individual is the person or entity recorded as the Account Holder by the specific Energy Supplier.
CCS Consumer Experience Guidelines	CEG	means the Category 3 Product of that name which describes the CCS Permission journeys and the associated user experience guidelines.
CCS Consumer Portal		means the secure online interface through which Energy Data Subjects can grant Permission, view details of organisations which have access to Energy Data and renew or revoke Permissions.
CCS Directory		means one of the functional components of the CCS, holding details of Qualified CCS Users (both Authorised Third Parties and Energy Data Holders) and Data Products available from each individual Energy Data Holder, with the associated metadata.
CCS Event Notifications		means a notification provided to a CCS User in accordance with paragraph 14 of the CCS Arrangements Schedule.
CCS Service Definition		means the document of that name forming part of the Technical Specification that describes the service being provided by the Consumer Consent Service.
CCS Shared Signals Framework	CCS SSF	means the mechanism for CCS Users to receive CCS Event Notifications as described in the CCS Arrangements Schedule and CCS Service Definition.

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CCS User Portal		means the secure online interface through which CCS Users can view and manage organisational information, enabling updates to be made to the information held in the CCS Directory.
Consumer Consent Service API Technical Specification		means the Category 2 Product of that name that describes the specification for Consumer Consent APIs.
Consumer Consent Service Arrangements	CCS Arrangements	means the arrangements described in the CCS Arrangements Schedule to facilitate the management of Permissions.
Consumer Consent Service Arrangements Schedule	CCS Arrangements Schedule	means REC Schedule [xx].
Consumer Consent Service	CCS	means the service provided pursuant to the CCS Arrangements Schedule and the CCS Service Definition.
Consumer Consent Service Provider	CCS Provider	means the service provider of the Consumer Consent Service.
Consumer Consent Service User	CCS User	means a person that has Qualified (and remains Qualified) as an Authorised Third Party and/or an Energy Data Holder.
Data Product		means a structured reusable package of data that serves a specific purpose or value for users.
Energy Data		means (a) Account Specific Tariff Information; (b) Metered Data; or (c) any other data specified as being in scope of a Data Product approved for inclusion in the CCS in accordance with the CCS Arrangements Schedule.

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Energy Data Holder	EDH	means a person that has been (and remains) accredited under paragraph 4 of the CCS Arrangements Schedule to hold and/or process Energy Data.
Energy Data Subject		means (a) for Account Specific Tariff Information, the Account Holder; or (b) for Metered Data, the Occupant.
Grant Identifier	Grant Id	means the unique identifier for the grant of an individual CCS Permission.
Occupant		means any person living at or otherwise occupying a Premises who utilises energy supplied to that Premises.
Permission		means the entitlement granted by an Energy Data Subject to an Authorised Third Party to access and use specific Energy Data for one or more defined purposes, in accordance with the requirements of the applicable Energy Code, Energy Licence or other applicable governance arrangements. A Permission may be subject to conditions, including limitations relating to duration, scope or use.
Refresh Token		means the token issued by the CCS, containing information relating to the Permission granted by the relevant Energy Data Subject, and used to request additional Access Tokens within the overall lifetime of the Permission in accordance with the CCS Arrangements Schedule.

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1 Introduction

1.1. This REC Schedule defines the Tariff Interoperability Arrangements, which involve:

(a) the exchange of Public Tariff Data between Tariff Interoperability Energy Suppliers (TI Energy Suppliers) ~~making available Tariff Pricing Data to~~and Tariff Interoperability Users (TI Users~~).~~); and

(b) the exchange of Account Specific Tariff Information between TI Energy Suppliers and Registered Tariff Interoperability Users (RTI Users).

~~1.1.~~1.2. A reference to a 'TI User' is a reference to a person requesting Public Tariff Data. For the avoidance of doubt, this includes a reference to an RTI User requesting Public Tariff Data. Whereas, a reference to an 'RTI User' is a reference only to the persons registered in accordance with Paragraph 3 to receive Account Specific Tariff Information. TI Users which are not RTI Users are not obliged to comply with this REC Schedule, but the processes described in this REC Schedule may be of practical interest to them.

~~1.2.~~1.3. The Tariff Interoperability Arrangements include requirements applicable to TI Energy Suppliers ~~and~~, the mechanism for accessing Public Tariff ~~Pricing~~ Data~~.~~ and the process for persons to become RTI Users and receive Account Specific Tariff Information including TI Event Notifications.

1.4. This REC Schedule should be read in conjunction with:

(a) the Tariff Interoperability API Technical Specification, which describes the specification and technical requirements for Tariff Interoperability APIs applicable to TI Energy Suppliers, TI Users and RTI Users;

(b) the TI Developer Portal, which provides machine-readable developer documentation and technical guidance supporting the implementation of the Tariff Interoperability Arrangements;

(c) the CCS Arrangements Schedule, which defines the rights and obligations of CCS Users and the processes for managing Permission via the CCS;

(d) the CCS API Technical Specification, which defines the mechanism for exchanging data with the CCS;

(e) the CCS Service Definition, which describes the functional components of the CCS and defines the functional and non-functional CCS requirements; and

(f) the CCS Consumer Experience Guidelines, which describes the CCS Consumer journeys and the associated user experience guidelines.

Transition for Public Tariff Data

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~~1.3.~~1.5. Other than for the purposes of the development and testing of the Tariff Interoperability API in accordance with Paragraph ~~1.4,~~1.6, Paragraphs ~~2 and 3~~2 to 4 (inclusive) of this REC Schedule shall only apply from 18 February 2027, or such later date as may be designated by the Secretary of State, being (in either case) the go-live date.

~~1.4.~~1.6. Before such go-live date:

(a) for the purposes of this Paragraph ~~1~~1 (and in the defined terms used in this Paragraph), references to TI Energy Suppliers which are required to provide ~~Tariff Pricing Data~~Tariff Data under the Tariff Interoperability Arrangements shall be interpreted as if the Tariff Interoperability Licence Condition had already come into effect;

(b) until this Code is amended to include the Tariff Interoperability API Technical Specification, the transition version of that specification maintained by RECCo, in consultation with the Secretary of State, shall apply;

(c) each TI Energy Supplier shall develop a Tariff Interoperability API, compliant with the Tariff Interoperability API Technical Specification;

(d) to the extent (if any) required by RECCo, each TI Energy Supplier shall participate in testing of their Tariff Interoperability API in cooperation with RECCo; and

(e) each TI Energy Supplier shall provide its Supplier Endpoint to RECCo by 31 December 2026, or such later date as may be designated by the Secretary of State.

Transition for Account Specific Tariff Information

1.7. Following the go-live date in accordance with Paragraph 1.5, the provisions of this REC Schedule concerning Account Specific Tariff Information and/or RTI Users shall not have effect until the Account Specific Tariff Information Go-Live Date (ASTI Go-Live Date).

1.8. Before such ASTI Go-Live Date:

(a) to the extent required by RECCo, each TI Energy Supplier shall develop and test the changes required to its Systems and processes to meet its obligations in connection with the provision of Account Specific Tariff Information in accordance with this Tariff Interoperability Arrangements Schedule and the CCS Arrangements Schedule; and

(b) each TI Energy Supplier shall ensure it provides all required Supplier Endpoint details for inclusion in the CCS Directory by 31 October 2027, or such later date as may be designated by the Secretary of State.

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Becoming and Ceasing to be a Tariff Interoperability Energy Supplier

~~1.5.~~1.9. Some Electricity Suppliers are required to participate in the Tariff Interoperability Arrangements by their Electricity Supply Licences. This REC Schedule together with the Tariff Interoperability Licence Condition sets out the obligations on Electricity Suppliers in relation to the Tariff Interoperability Arrangements, including the circumstances in which the sharing of information is mandatory.

~~1.6.~~1.10. Gas Suppliers are not mandated to share information under the Tariff Interoperability Arrangements but may choose to do so. In addition, Electricity Suppliers may also choose to participate in cases where they are not mandated to do so by the Tariff Interoperability Licence Condition.

~~1.7.~~1.11. Energy Suppliers which are not mandated to participate in the Tariff Interoperability Arrangements, but which wish to do so, shall notify RECCo of their intention to participate (thereby becoming a TI Energy Supplier). Such Energy Suppliers may opt to participate in providing Public Tariff Data and, where applicable, sharing Account Specific Tariff Information for non-mandatory cases.

1.12. Where a TI Energy Supplier has been participating in the Tariff Interoperability Arrangements on a voluntary basis and wishes to cease its participation~~, it shall~~ in its entirety or in relation to one or more specific Tariff Identifiers, or where the TI Energy Supplier has been sharing Account Specific Tariff Information for non-mandatory cases and wishes to cease sharing this data, it shall:

(a) where the TI Energy Supplier wishes to cease participation in the TI Arrangements in its entirety, give RECCo three ~~(3)~~ months' notice of the date upon which it will cease to participate~~.~~;

(b) not be permitted to provide Account Specific Tariff Information without providing Public Tariff Data; and

(c) inform impacted RTI Users (including any RTI Users who are suspended) that data sharing relating to a specific RMP will cease in accordance with Paragraph 2.16.

~~1.8.~~1.13. Each TI Energy Supplier is required to comply with this REC Schedule while it is a TI Energy Supplier. An Energy Supplier which ceases to be a TI Energy Supplier under Paragraph ~~1.8~~1.12 remains liable for any acts or omissions while it was a TI Energy Supplier.

Tariff Interoperability Supplier Register

1.14. ~~To~~Before the ASTI Go-Live Date, the following provisions apply:

(a) to support the Tariff Interoperability Arrangements, RECCo shall make available the TI Supplier Register providing TI Energy Supplier information in accordance with the Tariff Interoperability API Technical Specification~~.~~;

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(b) ~~The~~the TI Supplier Register shall provide publicly available information relating to each TI Energy Supplier. This information shall include each Supplier Endpoint as well as TI Energy Supplier contact details to support query resolution~~.~~;

(c) ~~Each~~each TI Energy Supplier shall maintain its information held on the TI Supplier Register by raising a query via the REC service desk. RECCo shall ensure that the TI Supplier Register is updated within 2 Working Days of a change to the information being requested by a TI Energy Supplier~~.~~;

(d) RECCo shall retain an audit record of all changes to the TI Supplier Register ~~for a minimum period of 15 months (with live data available for~~until at least three months ~~and archived data available for~~after the ~~remaining period).~~ASTI Go-Live Date. The system shall also be capable of accommodating the scrutiny of formal and informal audits by RECCo (or its agent), or any other person legally entitled to carry out such an audit~~.~~;

(e) RECCo shall issue a notification to TI Energy Suppliers in advance of Scheduled Maintenance that impacts the availability of the TI Supplier Register. Where an unplanned outage impacts the availability of the TI Supplier Register, RECCo shall issue a notification to each TI Energy Supplier as soon as is practicable. During any such outage, API requests will not be fulfilled, and requests will need to be re-sent by the TI Energy Supplier or TI User at a later time~~.~~;

(f) where a TI Energy Supplier proposes to amend its Supplier Endpoint details, it shall provide updated details to RECCo in accordance with Paragraph 1.14(c), at least 2 Working Days prior to the change. TI Energy Suppliers shall take reasonable steps to limit the frequency of change to their Supplier Endpoint(s); and

(g) when providing Supplier Endpoint details, each TI Energy Supplier shall identify an operational contact for managing queries relating to Tariff Data.

1.15. From the ASTI Go-Live Date, the following provisions apply:

(a) to support the Tariff Interoperability Arrangements, RECCo shall make available the TI Supplier Register and the RTI User Register. These registers will be held in the CCS Directory;

(b) the TI Supplier Register shall provide publicly available information relating to each TI Energy Supplier, including Supplier Endpoints and operation contact details, to facilitate requests for Public Tariff Data;

(c) the CCS Directory shall hold information accessible only to RTI Users and other Qualified CCS Users. This information shall include Supplier Endpoints to support:

i. Account Specific Tariff Information requests in accordance with Paragraph

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4.4 and 4.7;

ii. registration for receipt of TI Event Notifications in accordance with Paragraph 1.13.4; and

iii. CCS Account Holder Verification activities in accordance with the CCS Arrangements Schedule;

(d) each TI Energy Supplier shall maintain accurate and up to date information in the CCS Directory, making changes manually through the CCS User Portal; and

(e) each TI Energy Supplier shall ensure that its Supplier Endpoint details are updated at least 2 Working Days prior to any change. TI Energy Suppliers shall take reasonable steps to limit the frequency of change to their Supplier Endpoints.

Registered Tariff Interoperability User Register

1.16. From the ASTI Go-Live Date, the RTI User Register shall include:

(a) a publicly available list of RTI Users, which shall also be published by RECCo on the REC Portal for wider visibility; and

(b) RTI User identifiers which underpin interactions between participants and the CCS, public keys to support validation and operational contact details to support the resolution of issues. This information shall only be available to Qualified CCS Users.

1.17. Each RTI User shall maintain its information held on the RTI User Register, making changes manually via the CCS User Portal. TI Energy Suppliers can access RTI User information held within the CCS Directory via the CCS User Portal, or via the CCS API in accordance with the CCS API Technical Specification.

2 Tariff Interoperability Energy Supplier Requirements

2.1. Each TI Energy Supplier shall develop and maintain a Tariff Interoperability API, compliant with the Data Specification ~~Tariff Interoperability API Technical Specification.~~, and shall comply with the requirements of the Tariff Interoperability API Technical Specification.

2.2. Each TI Energy Supplier shall respond to requests for ~~Tariff Pricing Data~~Tariff Data submitted in accordance with the Tariff Interoperability API Technical Specification, using Tariff Interoperability Market Messages consistent with the definition set out in the Data Specification.

~~2.3. Where this REC Schedule references notifications to TI Energy Suppliers this must be done via an email or REC Portal notification using the operational contact details~~

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provided by the TI Energy Supplier in accordance with Paragraph 2.5. TI Energy Suppliers shall ensure that their contact details are maintained for this purpose.

Sharing Tariff Pricing Data

2.4.2.3. Each TI Energy Supplier shall provide RECCo withand maintain Supplier Endpoint details for the TI Energy Supplier's Tariff Interoperability APITariff Interoperability API, specifying the relevant Market Participant Identifier(s). A single Supplier Endpoint could be utilised for multiple Market Participant Identifiers. Where a TI Energy Supplier proposes to amend its Supplier Endpoint details, it shall provide updated details to RECCo at least 2 Working Days prior to the change. TI Energy Suppliers shall take reasonable steps to limit the frequency of change to their Supplier Endpoint(s).

2.5. When providing Supplier Endpoint details, each TI Energy Supplier shall identify an operational contact for managing queries.

2.6. Subject to Paragraph 2.8, each TI Energy Supplier shall ensure that Tariff Pricing Data relating to all cases mandated by its Energy Supply Licence is available on request via the Tariff Interoperability API using the Supplier Endpoint details held within the TI Supplier Register. When providing Tariff Pricing Data, TI Energy Suppliers shall ensure that all relevant information impacting the overall cost to the Consumer is shared. The free text 'Tariff Comments' field should be used to specify additional information such as pass through costs or incentive arrangements which impact the overall cost to the Consumer.

2.7.2.4. Tariff Pricing Data may include 'effective from' and 'effective to' dates which enable the recipient to determine the period over which the Tariff Pricing Data is applicable. Where Tariff Pricing Data is changing, the TI Energy Supplier shall ensure that amended Tariff Pricing Data is available via the Tariff Interoperability APITariff Interoperability API at least 60 minutes in advance of the change taking effect.

Suspending access to Tariff Data

2.8.2.5. A TI Energy Supplier may suspend access to Tariff Pricing DataTariff Data where:

(a) a potential, confirmed or suspected event that could compromise the security or integrity of the Tariff Pricing Data and/or the Tariff InteroperabilityTI Energy Supplier's Systems is detected, and suspending access is a proportionate mitigation;

(b) the number of requests for Tariff Pricing Data reaches the rate limit of 10,000 requests per second;

(c) the number of requests for Tariff Pricing Data from a single IP address reaches the rate limit of 1,000 requests per second; or

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~~(d)~~(b) requested to do so by RECCo~~.~~; or

(c) other than in relation to the continued provision of TI Event Notifications:

i. the number of requests for Tariff Data reaches the rate limit of 10,000 requests per second; or

ii. the number of requests for Tariff Data from a single IP address reaches the rate limit of 1,000 requests per second.

Sharing Public Tariff Data

2.6. Subject to Paragraph ~~2.8~~2.5, Each TI Energy Supplier shall ensure that Public Tariff Data relating to all cases mandated by its Energy Supply Licence (or which it has opted to provide in accordance with Paragraph 1.11) is available on request via the Tariff Interoperability API using the Supplier Endpoint details held within the TI Supplier Register.

2.7. When providing Tariff Pricing Data, TI Energy Suppliers shall ensure that all relevant information impacting the overall cost to the Account Holder is shared. The free text 'Tariff Comments' field should be used to specify additional information such as pass-through costs or incentive arrangements which impact the overall cost to the Account Holder. Where the time pattern applicable to the individual tariff, differs based on meter configuration, the TI Energy Supplier shall highlight this within the 'Tariff Comments' field.

Account Specific Tariff Information - Identification of Account Holders

2.8. Each TI Energy Supplier shall implement and maintain a mechanism for confirming that a person wishing to grant Permission to access Account Specific Tariff Information is the Account Holder for the associated RMP(s) in accordance with the CCS Arrangements Schedule and CCS API Technical Specification. As part of this confirmation, the TI Energy Supplier shall provide the relevant MPxN(s) to the CCS Provider, enabling the CCS Provider to include this information in the Access Token issued to the requesting RTI User.

2.9. Permission for access to Account Specific Tariff Information shall be recorded within the CCS against the Account Holder verified by the TI Energy Supplier. The Permission record shall identify the specific RTI User which is allowed to access the Account Specific Tariff Information and the TI Energy Supplier who verified the Account Holder status.

Account Specific Tariff Information - Permission

2.10. Each TI Energy Supplier shall become Qualified as an Energy Data Holder under the CCS Arrangements. As an Energy Data Holder, TI Energy Suppliers shall be required,

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in accordance with the CCS Arrangements Schedule, to validate that Permission is in place, prior to sharing Account Specific Tariff Information.

2.11. TI Energy Suppliers shall not require RTI Users to enter into bilateral agreements for the sharing of Account Specific Tariff Information and no charges shall be applied directly by TI Energy Suppliers.

2.12. Each TI Energy Supplier shall ensure that Account Specific Tariff Information is only shared with an RTI User where the Account Holder has granted Permission, and that Permission is still active as recorded in the CCS, for the benefit of that RTI User. Where a request for Account Specific Tariff Information is received from an RTI User which does not have active Permission, the TI Energy Supplier shall reject the request.

2.13. The CCS enables the recording of Permission for one-time access or long-term access (maximum three years before renewal is required) to Account Specific Tariff Information, with the ability (in the case of long-term Permission) for the Account Holder to revoke their Permission at any time.

2.14. An Account Holder may revoke Permission through a request to the relevant RTI User or directly via the CCS Consumer Portal. Where a TI Energy Supplier receives a request from an Account Holder to revoke Permission for sharing Account Specific Tariff Information, it shall inform the Account Holder that revocation can only be managed via the relevant RTI User or the CCS Consumer Portal.

Account Specific Tariff Information – Tariff Identifier Request

2.15. On receipt of a request from an RTI User for the Tariff Identifier relating to a specific RMP, the TI Energy Supplier shall validate the Access Token and, where the Access Token passes validation, provide the Tariff Identifier within the timescales specified in Paragraph 2.25.

Account Specific Tariff Information –TI Event Notifications

~~2.9.~~2.16. Each TI Energy Supplier shall develop and maintain a mechanism for notifying RTI Users of the following events in relation to RMPs for which the RTI User has an active Permission. To support this process, each TI Energy Supplier shall ~~ensure that:~~maintain Supplier Endpoint details within the CCS Directory to enable RTI Users to register to receive TI Event Notifications in accordance with Paragraph 1.1~~3.4~~ and to request TI event details in accordance with Paragraph 4.7. The events to be notified are set out below, with further detail regarding the process and associated triggers described in Paragraphs 4.7 and 4.8:

(a) ~~Tariff Pricing Data~~a change of Tariff Identifier applicable to the RMP;

(b) a change to the unit rate, standing charge or time variables associated with the Account Holder's Tariff Identifier (subject to Paragraph 2.21);

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(c) where the TI Energy Supplier is ceasing to be the Registered Supplier for the RMP(s);

(d) where the TI Energy Supplier becomes aware that there is, or will be a Change of Account Holder at the Premises; and

(e) only if the TI Energy Supplier is providing data in respect of one or more RMPs on a voluntary basis, where the TI Energy Supplier intends to cease participation in relation to the RMPs in question.

2.17. Where a TI Energy Supplier receives an Access Token from an RTI User requiring ongoing issuance of TI Event Notifications, the TI Energy Supplier shall record the RTI User details, together with the Grant Id and Expiry Date included in the Access Token and shall initiate the monitoring of CCS Permission Revocation Notifications and Permission Query Notifications. Where a TI Energy Supplier receives a Permission Revocation Notification or Permission Query Notification from the CCS, it shall immediately update its records and cease provision of TI Event Notifications.

2.18. Each TI Energy Supplier shall establish and maintain a mechanism that enables it to:

(a) receive Permission Revocation Notifications and Permission Query Notifications from the CCS in accordance with the CCS Arrangements; and

(b) issue notifications of changes to Account Specific Tariff Information in accordance with the TI Shared Signals Framework.~~;~~

2.19. Where the TI Event Notification trigger occurs, the TI Energy Supplier shall confirm, by reviewing its internal records, that it has not received a Permission Revocation Notification or Permission Query Notification in relation to the specific Grant Id and shall issue a notification, as referenced in Paragraph 2.18(b), to the relevant RTI User informing them that a new Access Token is required to allow the TI Energy Supplier to issue the TI Event Notification(s).

2.20. The TI Energy Supplier shall issue TI Event Notifications in accordance with the Tariff Interoperability API Technical Specification, using Tariff Interoperability Market Messages consistent with the definition set out in the Data Specification.

2.21. In the case of Paragraph 2.16(b), the TI Energy Supplier shall not issue a TI Event Notification for tariffs where the Tariff Type is recorded as ‘dynamic’. RTI Users shall utilise the ‘effective to’ and ‘effective from’ dates within the Tariff Pricing Data to determine when the unit rate and/or standing charge for these tariffs will be changing, and request Tariff Pricing Data accordingly.

All Tariff Data - Non-Functional Requirements

~~2.10.~~2.22. Subject to Paragraph 2.5, each TI Energy Supplier shall ensure that:

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(a) Tariff Data is available via their Tariff Interoperability API 99.9% of the time, measured across each calendar month;

(b) TI Event Notifications are issued within the timescales specified in Paragraph 4.8;

(c) it retains a record of Tariff Pricing Data updates for a minimum 15 months (with live data available for at least three months and archived data available for the remaining period);

~~(b)~~(d) it retains TI Event Notifications and requests for Account Specific Tariff Information with the associated response, for a minimum of 15 months (with live data available for at least three months and archived data available for the remaining period); and

~~(c)~~(e) it facilitates the retry strategy set out in Paragraph ~~2.16, where a response to a Tariff Pricing Data request is rejected, such that it buffers undelivered messages for a minimum of 12 hours from the initial attempt~~2.30, where an acknowledgement (HTTP 202) is not returned following the issuance of a Notification of TI Event Market Message.

~~2.11.~~2.23. Each TI Energy Supplier shall ensure that it has sufficient capacity to support:

(a) a steady state volume of at least 1,000 requests per second for Tariff ~~Pricing~~ Data; and

(b) a peak volume of at least 5,000 requests per second for Tariff ~~Pricing~~ Data for any 5 minute window.

~~2.12.~~2.24. Each TI Energy Supplier shall provide a response to each request for ~~Tariff Pricing Data~~Public Tariff Data within the following times:

Performance Parameter	Performance Level
Up to and including steady state volume (as per Paragraph ~~2.10).~~2.23).	95th percentile response time of 1 second, measured across a calendar month.
Above steady state volume and up to and including peak volume (as per Paragraph ~~2.10).~~2.23).	95th percentile response time of 5 seconds, measured across a calendar month.

2.25. Each TI Energy Supplier shall provide a response to each request for Account Specific Tariff Information, within the following times:

Performance Parameter	Performance Level

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Up to and including steady state volume (as per Paragraph 2.23).	95th percentile response time of 1 second, measured across a calendar month.
Above steady state volume and up to and including peak volume (as per Paragraph 2.23).	95th percentile response time of 5 seconds, measured across a calendar month.

All Tariff Data - Error Resolution

~~2.13.~~2.26. TI Energy Suppliers shall validate each request for ~~Tariff Pricing Data~~Tariff Data to ensure that:

(a) the request aligns with the required format (as specified in the Data Specification);

(b) the request relates to ~~Tariff Pricing Data,~~Tariff Data, which is in scope of the Tariff Interoperability Arrangements, either via Tariff Interoperability Licence Condition obligations or on a voluntary basis; ~~and~~

(c) the request relates to a Premises, which is in scope of the Tariff Interoperability Arrangements, either via Tariff Interoperability Licence Condition obligations or on a voluntary basis~~.~~;

(d) for Account Specific Tariff Information requests, the TI Energy Supplier is the Registered Supplier for the RMP; and

(e) for Account Specific Tariff Information requests, valid Permission is in place which authorises access by the requesting RTI User.

~~2.14.~~2.27. Where a request for ~~Tariff Pricing Data~~Tariff Data fails validation, the TI Energy Supplier shall issue a rejection message using the relevant error code defined in the Tariff Interoperability API Technical Specification.

~~2.15.~~2.28. Each TI Energy Supplier shall provide a mechanism to enable queries regarding the Tariff Interoperability API to be raised by TI Users, RTI Users and potential users of the Tariff Interoperability API.

~~2.16.~~2.29. Each TI Energy Supplier shall ensure that ~~they have~~it has policies and procedures in place to manage ~~Consumer~~Account Holder queries and complaints regarding the Tariff Interoperability Arrangements.

~~2.17.~~2.30. Where a Tariff Interoperability Market Message is sent by the TI Energy Supplier~~,~~ in accordance with Paragraph 2.22(e), resulting in validation by the recipient failing, or the response from the recipient is not received, the relevant Tariff Interoperability Market Message shall be re-sent in accordance with the retry strategy. The retry strategy requires the TI Energy Supplier to retry delivery three times at 20

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second intervals and then every 60 minutes ~~until the buffer period in Paragraph 2.9(c) expires.~~for a minimum of 12 hours from the initial attempt.

2.31. Each TI Energy Supplier shall monitor error messages received in relation to TI Event Notifications. Where a TI Event Notification remains undelivered after the retry strategy has been exhausted, then the TI Energy Supplier shall raise a query with the relevant RTI User using the contact details available via the CCS Directory.

All Tariff Data - Monitoring and Reporting

~~2.18.~~2.32. To support assurance of a TI Energy Supplier's compliance with its requirements under the Tariff Interoperability Arrangements:

(a) RECCo shall request Tariff Pricing Data via the Tariff Interoperability API to assess compliance with the Tariff Interoperability API Technical Specification and the non-functional requirements defined in this REC Schedule; and

(b) each TI Energy Supplier shall submit a monthly report including the required information as defined in the Performance Assurance Report Catalogue.

~~2.19.~~2.33. For the avoidance of doubt, monitoring is limited to compliance with the Tariff Interoperability Arrangements and does not measure the accuracy of the data shared by TI Energy Suppliers.

~~2.20.~~2.34. Performance data referenced in Paragraph ~~2.17(b)~~2.32(b) shall be made available to RECCo to support performance assurance activities. Information may also be shared with the Secretary of State and / or Ofgem where requested.

3 RTI User Registration

3.1. Any person can access Public Tariff Data using the Supplier Endpoints available within the TI Supplier Register. Therefore, persons that only wish to access Public Tariff Data are not required to register under the Tariff Interoperability Arrangements.

3.2. A person wishing to access Account Specific Tariff Information shall become Qualified as an Authorised Third Party in accordance with the CCS Arrangements Schedule. Where a RTI User is only seeking to access Account Specific Tariff Information and no other types of Energy Data, the applicant will not be required to undergo an Information Security Data Protection Assessment (ISDP).

3.3. RTI Users wishing to receive TI Event Notifications shall register with each relevant TI Energy Supplier to receive push notifications in accordance with the CCS Shared Signals Framework and the CCS Arrangements Schedule. TI Energy Suppliers may determine whether to use a single endpoint for multiple Market Participant identifiers (MPIDs). A RTI User shall register a single stream for receipt of TI Event Notifications with each TI Energy Supplier rather than registering a stream for each RMP.

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3.4. The following process shall be used to establish and verify a stream for receipt of TI SSF Notifications. The process for establishing a stream for receipt of CCS Event Notifications is defined in the CCS Arrangements Schedule:

Ref	When	Action	From	To	Interface	Means
3.4.1	As required, following RTI User registration.	Request TI Energy Supplier TI SSF transmitter endpoint url.	RTI User	CCS Directory	Get Directory Participants Request	CCS API
3.4.2	Following 3.4.1.	Provide TI Energy Supplier TI SSF transmitter endpoint url.	CCS Directory	RTI User	Get Directory Participants Response	CCS API
3.4.3	Following 3.4.2.	Request specific TI SSF endpoints to facilitate stream creation, verification and TI SSF Notification.	RTI User	Each applicable TI Energy Supplier	SSF TI Transmitter Configuration Request	TI API
3.4.4	Following 3.4.3.	Provide relevant TI SSF endpoints.	TI Energy Supplier	RTI User	SSF TI Transmitter Configuration Response	TI API
3.4.5	Following 3.4.4.	Register to set up a stream with each applicable TI Energy Supplier, to receive TI SSF Notifications.	RTI User	Each applicable TI Energy Supplier	TI SSF Notification Registration Request	TI API
3.4.6	Following 3.4.5.	Validate request based on RTI User information held in the CCS Directory, in accordance with the CCS API Technical Specification.	TI Energy Supplier		Internal process	N/A
3.4.7	Following 3.4.6.	Provide confirmation that TI SSF Notification stream has been established.	TI Energy Supplier	RTI User	TI SSF Notification Registration Response	TI API
3.4.8	Following 3.4.7 and at least once per day thereafter.	Initiate verification event to confirm TI SSF Notification stream is live	RTI User	Each applicable TI Energy Supplier	SSF TI Verification Request	TI API

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		and can receive any available TI SSF Notifications.				
3.4.9	Following 3.4.8.	Acknowledge receipt and confirm that the stream is live.	TI Energy Supplier	RTI User	SSF TI Verification Response	TI API
3.4.10	Following 3.4.5 where the verification response is not received within 5 minutes.	Raise a query with the TI Energy Supplier using the contact details held within the TI Supplier Register.	RTI User	TI Energy Supplier	Not defined	N/A

3.5. As part of the RTI User registration process, the applicant will be required to sign an Access Agreement specifying the applicable legal terms and conditions. The template Access Agreement is included in Appendix 1 of REC Schedule 9.

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Suspension or Revocation of RTI User Registration

~~2.21.~~3.6. Each RTI User is subject to Performance Assurance, pursuant to which the REC Performance Assurance Board (REC PAB) may determine that an RTI User's registration should be suspended or revoked (and, if previously suspended, restored). RECCo shall update the RTI User Register to reflect such determinations. If an RTI User's registration is revoked by the REC PAB, RECCo shall terminate the RTI User's Access Agreement.

~~2.22.~~3.7. RECCo may suspend an RTI User's registration where RECCo determines that the RTI User is in breach of any of its obligations under this REC Schedule or its Access Agreement. RECCo may restore an RTI User's registration where previously suspended by RECCo. RECCo shall update the RTI User Register to reflect such suspensions or restorations.

~~2.23.~~3.8. Where an RTI User's registration is revoked, all Permissions associated with the RTI User will automatically be treated as revoked, which will terminate any access to Account Specific Tariff Information.

~~2.24.~~3.9. Suspension of the RTI User's registration does not result, under the terms of this REC Schedule, in associated Permissions being treated as revoked. However, an RTI User's security certificates will be revoked in accordance with the CCS Arrangements Schedule, preventing Access Tokens from being requested and therefore ceasing data access until suspension is removed. For the avoidance of doubt, suspension of the RTI User's registration will automatically result in the REC PAB considering whether to suspend the organisation's Qualification as a CCS User in accordance with the CCS Arrangements Schedule.

RTI User Requirements

3.10. Each RTI User shall become Qualified as an Authorised Third Party (ATP) under the CCS Arrangements Schedule. Unless stated otherwise, RTI Users shall comply with each ATP requirement set out within the CCS Arrangements Schedule. Each RTI User shall develop and maintain a Tariff Interoperability API, compliant with the Data Specification, and shall comply with the requirements of the Tariff Interoperability API Technical Specification.

3.11. Each RTI User agrees that it shall not access or seek to access Account Specific Tariff Information unless the RTI User has obtained (and still has) express Permission from the relevant Account Holder to access the Tariff Data.

3.12. Each RTI User shall only request Permission for a maximum of three years from the date the Permission was granted. After this period, the Permission shall expire and the RTI User will need to obtain renewed Permission from the Account Holder in order to access Account Specific Tariff Information.

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3.13. Where the RTI User becomes aware that the identified person is no longer the Account Holder, then the RTI User shall treat the Permission as being revoked and notify the CCS in accordance with the CCS Arrangements Schedule.

3.14. Each RTI User may copy, adapt and create derivative works from the Tariff Data where necessary for the purposes of providing services to an Account Holder from which the RTI User has Permission. Each RTI User agrees that it shall not access, use or exploit the Tariff Data or the Tariff Interoperability Arrangements for any other purpose, and that it shall otherwise keep the Tariff Data confidential and not publish or otherwise disclose it, unless explicitly agreed with the Account Holder.

3.15. Each RTI User shall immediately notify RECCo and the relevant TI Energy Supplier(s) if the RTI User knows or suspects any unauthorised or unlawful processing of, loss of, damage to, destruction or corruption of, or misuse of any Tariff Data, or of any security breach that could compromise the security or integrity of the Tariff Data and/or the TI Supplier Register.

3.16. Each RTI User shall provide and maintain operational contact details to be held in the RTI User Register, to facilitate issue resolution.

~~3~~4 Tariff Interoperability Processes

~~3.1.~~4.1. This Paragraph ~~3~~4 defines the end-to-end processes for sharing ~~Tariff Pricing Data~~Tariff Data under the Tariff Interoperability Arrangements.

~~3.2.~~4.2. To ensure that the Tariff Interoperability Arrangements are effective, a TI Energy Supplier can reasonably expect ~~a~~ TI Users and RTI Users to:

(a) ensure that requests for ~~Tariff Pricing Data~~Tariff Data comply with the format defined in the Tariff Interoperability API Technical Specification, taking account of the supporting guidance in the TI Developer Portal;

(b) monitor error messages received in relation to requests for ~~Tariff Pricing Data;~~Tariff Data;

(c) where a request is rejected, make reasonable attempts to re-send the request in accordance with the retry strategy ~~defined in Paragraph 2.16~~, requiring the TI User / RTI User (as applicable) to retry delivery three times at 20 second intervals and then every 60 minutes for a minimum of 12 hours from the initial attempt, and check the TI Supplier Register before raising a query with the TI Energy Supplier; and

(d) where a request remains undelivered after ~~a reasonable number of attempts have~~the retry strategy has been ~~made, to~~exhausted, raise a query with the relevant TI Energy Supplier using the ~~lead~~ contact details provided within the TI Supplier Register.

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Access to Public Tariff Data

~~3.3.~~4.3. A TI User wishing to access ~~Tariff Pricing Data~~Public Tariff Data shall follow the process in the interface table below:

Ref	When	Action	From	To	Interface	Means
~~34~~.3.1	As required.	Request details of Supplier Endpoints. The TI User shall determine how frequently they request Supplier Endpoint details. These are not expected to change on a regular basis.	TI User	TI Supplier Register	Pre ASTI Go-Live Get Supplier Tariff Endpoints Request or Post ASTI Go-Live Get Directory Participants Request	TI API or CCS API from ASTI Go-Live Date
~~34~~.3.2	Following ~~34~~.3.1 where the message passes validation.	Provide details of all available Supplier Endpoints.	TI Supplier Register	TI User	Pre ASTI Go-Live Get Supplier Tariff Endpoints Response or Post ASTI Go-Live Get Directory Participants Response	TI API or CCS API from ASTI Go-Live Date
~~34~~.3.3	Where ~~Tariff Pricing Data~~Tariff Data is required.	Submit request for a list of available Tariff Ids. TI Users can apply query parameters to filter the response as set out in the Tariff Interoperability API Technical Specification. Where the message fails validation, progress to 4.3.4. Where the message passes validation, progress to 4.3.5.	TI User	TI Energy Supplier	Get Tariffs Request	TI API

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4.3.4	Following 4.3.3 where the message fails validation.	Reject the request for Tariff Data in accordance with the TI API Technical Specification.	TI Energy Supplier	TI User	Standard HTTP rejection	TI API
4.3.~~3.~~4~~5~~	Following ~~3~~4.3.3 where the message passes validation.	Share requested Tariff Ids.	TI Energy Supplier	TI User	Get Tariffs Response	TI API
4.3.~~3.~~5~~6~~	At any time, where the TI User knows the Tariff Identifier.	Submit request for Tariff Pricing Data using the Tariff Id.	TI User	TI Energy Supplier	Get Tariff Details Request	TI API

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4.3.3-6-7	Following 4.3.3-5-6 where the message passes validation	Share requested Tariff Pricing Data.	TI Energy Supplier	TI User	Get Tariff Details Response	TI API

Access to Account Specific Tariff Information

4.4. In order to access Account Specific Tariff Information, an RTI User must obtain, and continue to hold, Permission from the Account Holder. The mechanisms for accessing RTI User and TI Energy Supplier endpoint details and for carrying out CCS Account Holder Verification are defined in the CCS Arrangements Schedule. The process for obtaining Permission and requesting Account Specific Tariff Information is set out in the interface table below:

Ref	When	Action	From	To	Interface	Means
4.4.1	As required.	Engage with an Account Holder to agree services.	RTI User	Account Holder	Not defined	N/A
4.4.2	As required.	Submit authorisation request for access to Tariff Data.	RTI User	CCS	Pushed Authorization Request	CCS API
4.4.3	Following 4.4.2 where the message passes validation.	Return unique reference for the request (request_uri) which the RTI User uses to divert the Account Holder to the CCS.	CCS	RTI User	Pushed Authorization Request Response	CCS API
4.4.4	Following 4.4.3	Account Holder provides email address to allow CCS to determine whether they have a CCS account. Where the Account Holder has a CCS account, progress to 4.4.5. Where the Account Holder does not have a CCS account, progress to 4.4.6.	Account Holder	CCS	Not defined	CCS Consumer Portal

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4.4.5	Following 4.4.4, where the Account Holder has a CCS account.	Log into CCS account. Where the Registered Supplier has changed, progress to 4.4.7. Where Registered Supplier has not changed, progress to 4.4.8.	Account Holder	CCS	Not defined	CCS Consumer Portal
4.4.6	Following 4.4.4, where the Account Holder does not have a CCS account.	Validate email address using One Time Password and establish a CCS account.	Account Holder	CCS	Not defined	CCS Consumer Portal
4.4.7	Following 4.4.5 where a returning Account Holder has confirmed their Registered Supplier has changed or 4.4.6 where CCS Account Holder Verification is required.	The person purporting to be the Account Holder will be redirected to the relevant Energy Supplier by the CCS. This verification requires the Account Holder to log into their TI Energy Supplier's account. The process for CCS Account Holder Verification is defined in the CCS Arrangements Schedule and CCS API Technical Specification.	Account Holder	TI Energy Supplier	See CCS Arrangements	N/A
4.4.8	Following successful completion of CCS Account Holder Verification or following 4.4.5 where a returning Account Holder has confirmed their Registered Supplier has not changed.	Request Account Holder to confirm if they wish to provide Permission for their Account Specific Tariff Information to be shared. Where the Account Holder does not provide Permission, progress to 4.4.9. Where the Account Holder does provide Permission, progress to 4.4.10.	CCS	Account Holder	Not defined	CCS Consumer Portal
4.4.9	Following 4.4.8 where the Account Holder does not grant Permission.	Notify RTI User of failed Permission journey in accordance with the CCS API Technical Specification.	CCS	RTI User	CCS redirection	N/A
4.4.10	Following 4.4.8 where the Account Holder grants Permission for a specific RTI	Record Permission against the specific RMP(s) and RTI User and provide authorization code.	CCS	RTI User	CCS redirection	N/A

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	User to access their Account Specific Tariff Information.	At this stage the Account Holder is re-directed back to the RTI User in accordance with the CCS API Technical Specification.				
4.4.11	Following 4.4.10.	Create Permission record and store Grant Id and Expiry Date (RTI User internal activity). Use the authorization code via a secure channel to request Refresh Token and Access Token.	RTI User	CCS	Token Request	CCS API
4.4.12	Following 4.4.11 where the message passes validation.	Provide Refresh Token to enable future Access Tokens to be requested during the period of Permission and an Access Token for the immediate request to a TI Energy Supplier.	CCS	RTI User	Token Response	CCS API
4.4.13	Following receipt of a valid Access Token.	Use Access Token provided by the CCS to request RMP specific Tariff Id from the relevant TI Energy Supplier.	RTI User	TI Energy Supplier	Get MPXN Tariff Details Request including CCS authorization header	TI API
4.4.14	Following 4.4.13.	Validate Access Token, in accordance with the CCS API Technical Specification, to confirm whether appropriate Permission is in place. Where Permission is not in place, progress to 4.4.15. Where Permission is in place, progress to 4.4.16.	TI Energy Supplier		Internal process	N/A
4.4.15	Following 4.4.14 where valid Permission is not in place.	Reject the request for Account Specific Tariff Information in accordance with the TI API Technical Specification.	TI Energy Supplier	RTI User	Standard HTTP rejection	TI API

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4.4.16	Following 4.4.14 where valid Permission is in place.	Provide RMP specific Tariff Id.	TI Energy Supplier	RTI User	Get MPXN Tariff Details Response	TI API
4.4.17	Following 4.4.16 where Permission requires ongoing TI Event Notifications.	Record Grant Id and Expiry Date associated with the Permission. Issue TI Event Notification(s) as required under Paragraph 4.7 until the Permission expires or notification of revocation is received in accordance with Paragraph 4.5.	TI Energy Supplier		Internal process	N/A
4.4.18	At any time, where the RTI User knows the Tariff Identifier.	Submit request for Tariff Pricing Data using a single Tariff Identifier. This process and TI Market Message align to the request for Public Tariff Data in step 4.3.6.	RTI User	TI Energy Supplier	Get Tariff Details Request	TI API
4.4.19	Following 4.4.18 where the message passes validation.	Share requested Tariff Pricing Data.	TI Energy Supplier	RTI User	Get Tariff Details Response	TI API

Permission Review, Renew and Revoke

4.5. The processes for Account Holders to review active Permission, renew Permission to share Account Specific Tariff Information, or revoke Permission are set out in the CCS Arrangements Schedule.

TI Event Notification

4.6. Where an RTI User wishes to receive TI Event Notifications, they shall register with the relevant TI Energy Supplier in accordance with Paragraph 1.13~~.4~~.

4.7. TI Energy Suppliers shall follow the process in the interface table below before issuing the TI Event Notification:

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Ref	When	Action	From	To	Interface	Means
At any point where a TI Event Notification is required to be sent						
4.7.1	Check internal record to confirm that the relevant Permission has not been revoked in accordance with Paragraph 4.5, and only where no Permission Revocation Notification or Permission Query Notification has been received.	Issue a notification informing the relevant RTI User that an event has occurred.	TI Energy Supplier	RTI User	Notification of TI Event	TI API
4.7.2	Following 4.7.1, where the message passes validation.	Use Refresh Token to request a new Access Token.	RTI User	CCS	Refresh Token Request	CCS API
4.7.3	Following 4.7.2.	Provide Access Token for the immediate request.	CCS	RTI User	Refresh Token Response	CCS API
4.7.4	Following receipt of a valid Access Token.	Use Access Token provided by the CCS to request confirmation of the specific event.	RTI User	TI Energy Supplier	Get TI Event Details Request	TI API

4.8. The interface table below sets out the process to be followed for each TI Event Notification type:

Change of Tariff Identifier						
4.8.1	Within 60 minutes of a new tariff being agreed between the TI Energy Supplier and the Account Holder or, where there is no agreement (e.g. the Account Holder rolls off a fixed term contract and onto a variable term contract) at least 60 minutes	Confirm Permission is in place in accordance with Paragraph 4.7.	TI Energy Supplier		Internal process	N/A

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	before the tariff change takes effect.					
4.8.2	Following 4.8.1 where a valid Access Token has been provided.	Provide details of new Tariff Id.	TI Energy Supplier	RTI User	Get TI Event Details Response	TI API
4.8.3	Following 4.8.2 where the message passes validation.	Update the Account Holder's tariff information and request Tariff Data in accordance with Paragraph 4.3.	RTI User		Internal Process	N/A
Change to the unit rate, standing charge or time variables associated with the Account Holder's Tariff Identifier						
4.8.4	At least 60 minutes before a change is made to the unit rate, standing charge or time variables associated with the Account Holder's Tariff Identifier.	Confirm Permission is in place in accordance with Paragraph 4.7.	TI Energy Supplier		Internal process	N/A
4.8.5	Following 4.8.4 where a valid Access Token has been provided.	Provide details of Tariff Id.	TI Energy Supplier	RTI User	Get TI Event Details Response	TI API
4.8.6	Following 4.8.5 where the message passes validation.	Use the updated Tariff Id to request Tariff Pricing Data in accordance with Paragraph 4.3.	RTI User		Internal Process	N/A
Termination of the Supplier Registration						
4.8.7	Within 60 minutes of receipt of a Secured Inactive Notification from CSS in accordance with the Registration Services Schedule.	Confirm Permission is in place in accordance with Paragraph 4.7.	TI Energy Supplier		Internal process	N/A
4.8.8	Following 4.8.7 where Permission is in place.	Provide notification that the TI Energy Supplier will no longer be registered for the RMP.	TI Energy Supplier	RTI User	Get TI Event Details Response	TI API
4.8.9	Following 4.8.8 where the message passes validation.	Where required, engage with the Account Holder to determine the new Registered Supplier and initiate a new request for access to Account	RTI User		Internal Process	-

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		Specific Tariff Information in accordance with Paragraph 4.3, if required.				
Change of Account Holder						
4.8.10	Within 1 WD of becoming aware that the Account Holder is or will no longer be associated with one or more of the matched RMPs.	Confirm Permission is in place in accordance with Paragraph 4.7.	TI Energy Supplier		Internal process	N/A
4.8.11	Following 4.8.10 where Permission is in place.	Provide notification that the Account Holder is or will no longer be associated with one or more of the matched RMPs.	TI Energy Supplier	RTI User	Get TI Event Details Response	TI API
4.8.12	Following 4.8.11 where the message passes validation.	Engage with the Account Holder to determine whether the existing Permission should be revoked. Note the requirement in the CCS Arrangements Schedule for RTI Users as Authorised Third Parties to revoke Permission where they identify that the individual who granted Permission is no longer the appropriate individual.	RTI User		Internal Process	N/A
Ceasing to participate in the Tariff Interoperability Arrangements						
4.8.13	Where the TI Energy Supplier determines it will no longer participate in the TI Arrangements, or where a TI Energy Supplier has been sharing Account Specific Tariff Information for non-mandatory cases and wishes to cease	Confirm Permission is in place in accordance with Paragraph 4.7.	TI Energy Supplier		Internal process	N/A

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	sharing this data, in accordance with Paragraph 1.12.					
4.8.14	Following 4.8.13 where Permission is in place and at least 20 WDs prior to the TI Energy Supplier ceasing to participate in the TI Arrangements in their entirety, or sharing Account Specific Tariff Information for a non-mandatory case.	Provide notification that the TI Energy Supplier will no longer be sharing Account Specific Tariff Information. Where the TI Energy Supplier is not withdrawing from the TI Arrangements entirely, this notification should include details of the impacted RMP(s).	TI Energy Supplier	RTI User	Get TI Event Details Response	TI API
4.8.15	Following 4.8.14 where the message passes validation.	Engage with the Account Holder to understand next steps.	RTI User		Internal Process	N/A

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