RETAIL ENERGY CODE

REC TARIFF INTEROPERABILITY SOLUTION WORKING GROUP (TISWG)

17 JULY 2025

AGENDA

AGENDA ITEM	PRESENTER
Welcome and Introduction	Chair
Confirmation of Agenda	Chair
Confirmation of Previous Minutes	Secretary
Approval of Actions Log	Secretary
Service Monitoring Tool – Principles	Nathan Gould
Governance Approach	Sarah Jones
Operational Processes	Sarah Jones
Q&A	Chair
AOB	Chair

CONFIRMATION OF PREVIOUS MEETING'S MINUTES

APPROVAL OF ACTIONS LOG

ACTION REF.	ACTION	OWNER(S)	ORIGINAL TARGET (ACTUAL TARGET)	UPDATE	STATUS
RECTISWG_25_0619_02	The Chair and KR to gather and respond to feedback presented by TISWG members.	The Chair	04/07/2025	RECCo have considered this feedback and incorporated Member's comments into the tariff solution. This will be provided as part of the API Technical Specification review.	Propose to Close
RECTISWG_25_0703_01	RECCo to review feedback provided during Finalised Assumptions and return to TISWG with an update.	The Chair	24/07/2025	RECCo have considered this feedback and incorporated Member's comments into the tariff solution. This will be provided as part of the API Technical Specification review.	Propose to Close

SERVICE MONITORING TOOL

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The Service Monitoring Tool (SMT) is desired to maximise the potential benefits of the Tariff Interoperability service and support assurance of the proposed new obligations

The SMT will provide

Direct Testing

Regular direct testing to measure API availability, latency, and tariff pricing data variation

Reporting

Provision of consolidated dashboards, curated reports, and full databases for internal RECCo performance assurance stakeholders

The SMT will enable

Performance Assurance

Collecting near real-time data on the availability, traffic and efficiencies across the system to maximise the benefits and ensure compliance

Supplier Support

Additional monitoring across Supplier APIs to help with early detection of emerging issues, bolstering security for all participants and to support Suppliers in their own monitoring

SERVICE MONITORING TOOL

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Use Cases

Public Transparency

Secure, semi-public provision of high-level performance data available to all participants

Performance Assurance

Support the REC Code Manager to observe and assure the performance of the system

Industry-wide Regulation

Enable independent arbitration of API performance with verifiable data and performance alerting

SMT Principles

1. The SMT must facilitate an efficient assessment of Supplier API performance across the industry
2. The SMT must share information in way which is accessible and easy to understand, automated where possible
3. The SMT must be a resilient and reliable tool to underpin the reliability of the system
4. The implementation of the SMT should have a minimal impact on Suppliers
5. The SMT must ensure data protection and security best practices are following by all actors
6. The SMT must be able to scale and innovate to satisfy the growing needs of a growing flexibility market

SERVICE MONITORING TOOL

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The SMT will be developed to ensure alignment with the performance metrics and Service Level Obligations to be defined with the API Specification

Direct Testing

The SMT will ping Supplier APIs on a regular basis, frequency TBD, to conduct direct testing of API performance

Areas under active consideration for direct testing include:

- Latency
- Compliance with the agreed Data Standard
- Errors

Dashboards and Reporting

The SMT will use the data to make available semi-public dashboards outlining key reporting information

- We would expect reporting data to identify the amount of public data requests, private data requests, and errors received
- This will support demonstrating the viability of the service, indicate any issues with the service, and the performance of Users

GOVERNANCE APPROACH

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The REC Baseline Statement defines all articles which are part of the REC Code Baseline

Category One

Includes the Main Body of the REC and the REC Schedules which cover market participant obligations and overarching REC governance

Category Two

Includes Service and Data Specifications and some operational documents. Typically, Category 2 documents define service provider obligations and technical content

Category Three

Includes operational documents and RECCo guidance which are required to support market participants but not place obligations on them.

Including the provisions for Tariff Interoperability in the right category of document is important as it impacts the ease by which changes can be made to these documents in future

In practice, this means that the **REC Schedules define *what* Market Participants must do** to comply with their obligations under the REC. These are legally robust and consistent with any higher-level Supply Licence Conditions. Changes to the Schedules are considered by the relevant governance group who is focused on overall party compliance, operational delivery, and regulatory policy.

Data and Technical Specifications define *how* technical solutions should be delivered. These documents need to be sufficiently clear to enable technical resources to build the required solutions, enabling parties to meet their code obligations.

GOVERNANCE APPROACH

CAT 2 - Schedule

Tariff Interoperability Schedule

Sets out obligations on parties (Suppliers, RTIS Users and RECCo

Contents (tbc):

- Purpose of the service
- Who can access
- How can parties get access
- Scope of data that can be obtained
- Obligation on suppliers to make data available/accuracy of data
- Obligation on suppliers to provide monitoring information
- RECCo role to contract Service Monitoring Tool and Central TI Register
- Terms of use for RTIS Users e.g. permitted purpose, confidentiality/data protection/misuse etc
- Requirement to sign Access Agreement (RTIS Users)

CAT 2 – Data Specification

API Technical Specification

Technical definition of Tariff Interoperability API to enable Suppliers and RTIS Users to build their solution.

Contents (tbc):

- Mechanism for sharing Tariff Pricing Data
- Mechanism for engaging with Tariff Interoperability Central Service
- Physical definition of tariff messages

TBC

Access Agreement

Agreement to be signed by RTIS Users.

Requires the user to meet required standards on data protection, purpose and use of data, security etc

CAT 2 – Data Specification

Energy Market Data Specification

Standardised definition of:

- New Data Items (where required)
- New Market Messages for sharing data

CAT 2 – Service Definition

TI Central Service Definition (TBC)

Explains in detail the services RECCo will provide via the Tariff Interoperability Central Service.

Contents:

- Provision of Central TI Register used to store endpoint data and enabling the registration of webhooks.
- Provision of the Service Monitoring Tool, used to support assurance of the Tariff Interoperability Solution

RECCo will also review and update existing REC products, specifically Schedule 1 (Interpretations and Definitions) and the Performance Assurance Reporting Catalogue (PARC). Changes or additional Category 3 documentation will be considered as part of RECCo Operational Readiness Activities.

GOVERNANCE APPROACH

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Our approach to governance and the development of the key deliverables is directly linked to our work in TISWG

Tariff Interoperability Schedule

Key Inputs:

- Supplier requirements inc NFRs
- Agreed scope and exemptions
- User requirements inc light-touch registration model and access agreement terms
- Operational processes to reflect defined use cases
- Central TI Service arrangements

Tariff Pricing Data API Tech Spec

Key Inputs:

- Solution Architecture
- RESTful API Technical Detail
- Consent Mechanism
- Security requirements
- Non-functional Requirements
- Physical Definition

Energy Market Data Specification

Key Inputs:

- Definition of the Tariff Pricing Data Market Messages
- Agreed Data Items
- Agreed Fields & Formats
- Alignment of Public versus Private Data Items
- Alignment with REC Data Items

USER ACCESS AGREEMENT

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The Access Agreement is a legal document which RTIS Users will be required to comply with

- **Places you on the RTIS User Register**
- **Defines rules for accessing and using Tariff Pricing Data**
- **Allows access to be revoked for misuse of Tariff Pricing Data**

The Access Agreement underpins the light-touch registration mechanism, and provides a mechanism for Non-REC Parties to be bound by terms of use

Development	A draft Access Agreement is currently being developed by our legal advisers. It is proposed that the agreement will a stand alone, short-form agreement specific to Tariff Interoperability.
Key Areas	The Access Agreement will include clauses relating to data use, confidentiality, limitation of liabilities, data protection etc
Next Steps	Once we have a finalised draft, we will bring for internal RECCo review, and then final review with our DESNZ colleagues. We then intend to disseminate prior to a future TISWG for discussion.

PROPOSED CHANGE TO EVENT NOTIFICATIONS

In conversations with stakeholders, we have identified an opportunity to simplify the messaging process and deliver a service which is further aligned to the Use Cases

Dynamic

Proposed approach: tariff price change event notifications not required for dynamic tariffs as these are daily events.

Other event notifications, such as change of Supplier, Tariff and Tariff Pricing Data for non-dynamic tariffs are event driven and will be managed using webhooks.

Static | **Time of Use** | **Type of Use**

Use of webhooks required for these type of tariffs

For changes to dynamic tariff pricing information, we are proposing that an obligation is placed on Suppliers to ensure updated tariff pricing information is available by 23.00 for the next day.

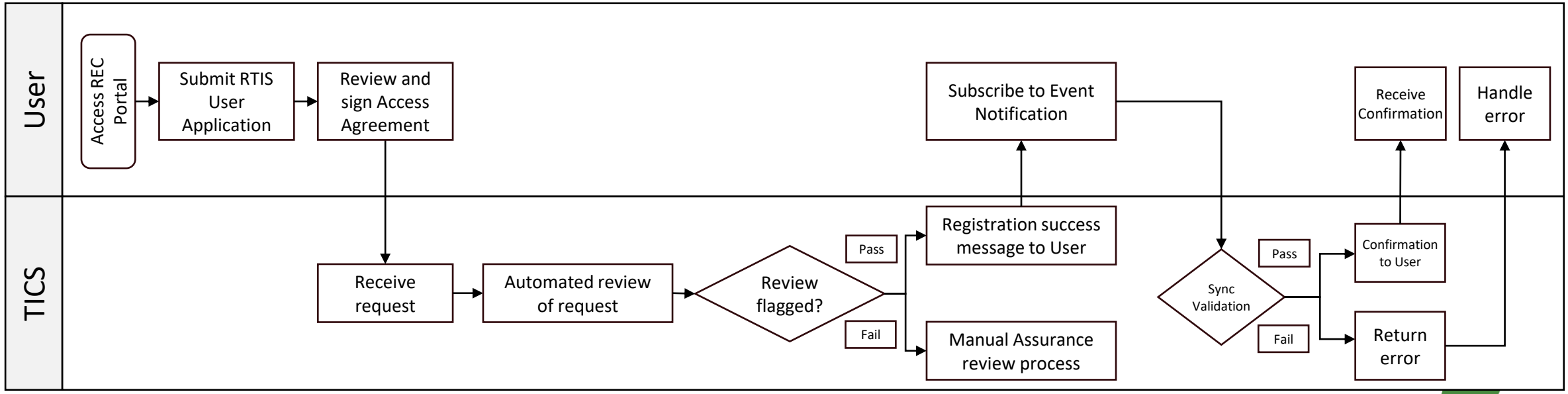
Users can then poll the Supplier API each day to access next day pricing information.

DRAFT OPERATIONAL PROCESSES

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RTIS Registration

Ref	When	Action	From	To	Interface	Means
3.6.1	As required	Submit RTIS User application	User	TI Central Service	Not defined	TI Portal
3.6.2	Following 3.6.1	Complete registration including signing Access Agreement	User	TI Central Service	Not defined	NA
3.6.3	Following successful registration.	Subscribe to receive Tariff Interoperability Event Notifications	User	TI Central Service	Webhook Subscription	TI Portal
3.6.4	Following 3.6.3 where the message passes synchronous validation.	Store details within the TI Central Register and provide confirmation of successful update with associated security credentials.	TI Central Service	User	Webhook Subscription Response	TI Portal

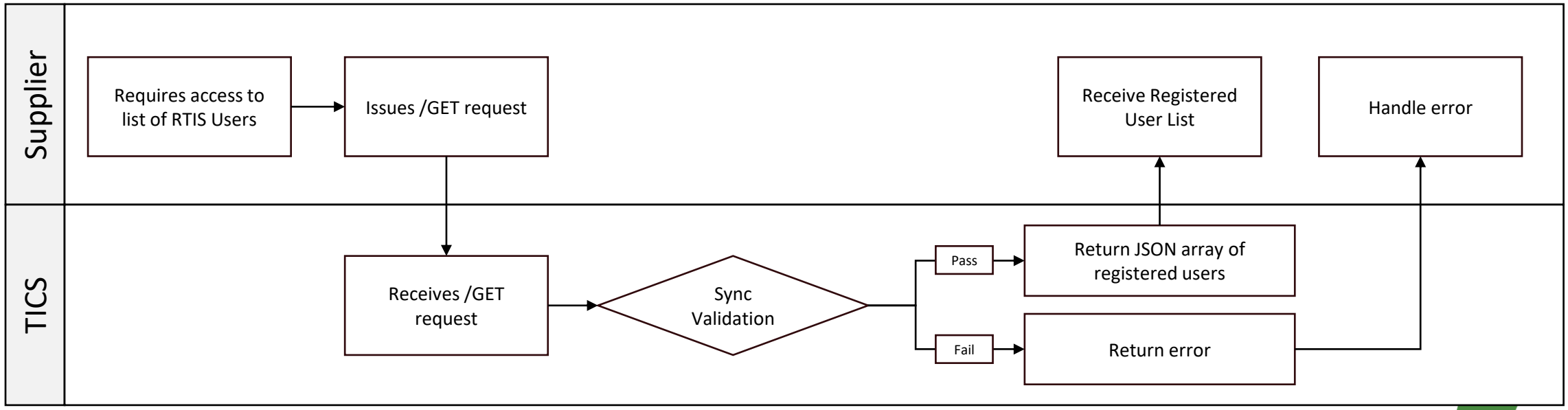


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Accessing Details of RTIS Users

Ref	When	Action	From	To	Interface	Means
3.5.1	As required.	Request list of Registered Tariff Interoperability Scheme Users	Energy Supplier	TI Central Service	Retrieve User Registration List	TI API
3.5.2	Following 3.5.1 where the message passes synchronous validation.	Provide list of Registered Tariff Interoperability Scheme Users.	TI Central Service	Energy Supplier	User Registration List	TI API



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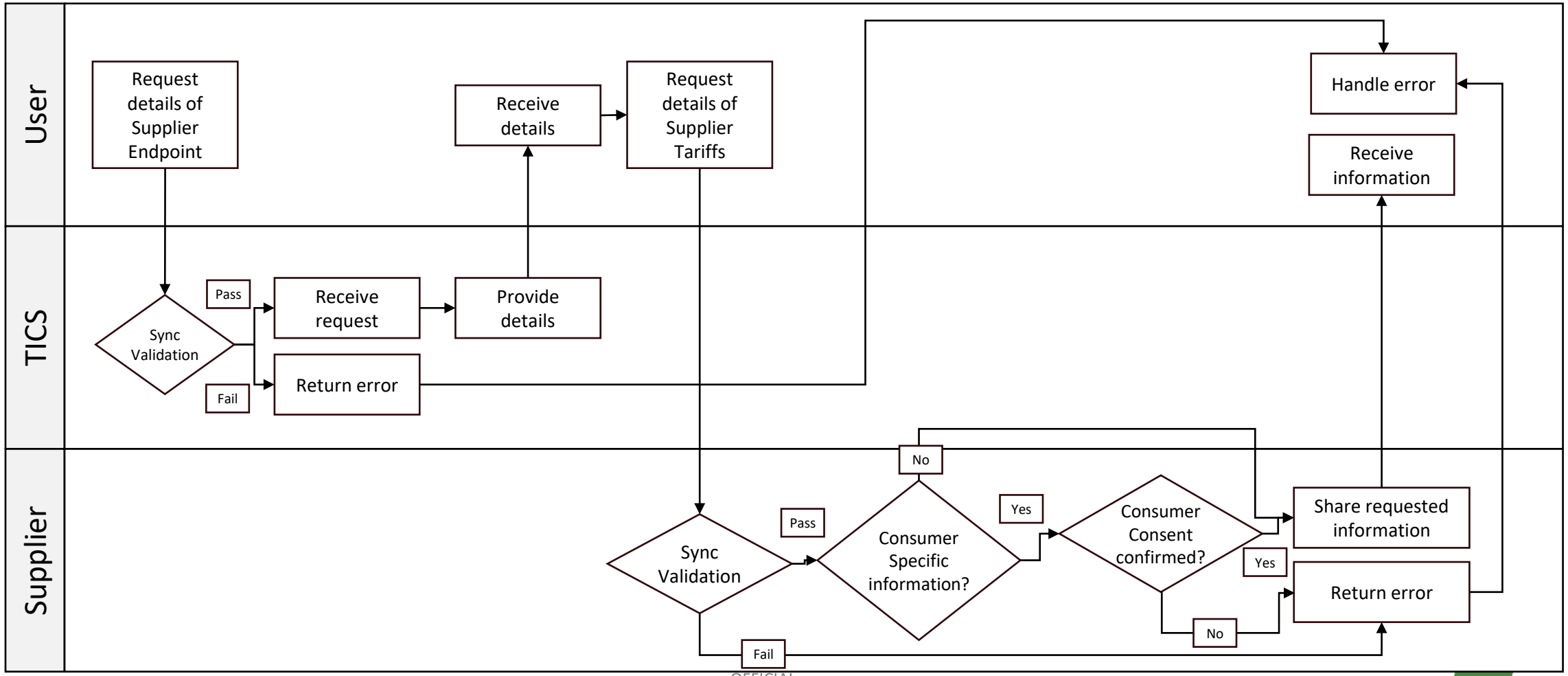
Accessing Tariff Pricing Data

Ref	When	Action	From	To	Interface	Means
4.2.1	As required.	Request details of the relevant Supplier Endpoint.	User	TI Central Service	Retrieve Supplier Endpoints	TI API
4.2.2	Following 4.2.1 where the message passes synchronous validation.	Provide details of the Supplier Endpoint.	TI Central Service	User	Available Supplier Endpoints	TI API
4.2.3	Following receipt of the Supplier Endpoint details in 4.2.2.	Submit request for Energy Supplier Tariffs. This request may specify the Distribution Network Operator or Payment Method to filter the scope of the response. Where the user has Consumer consent they may request the Tariff Name for a particular Metering Point. This would require the RTIS User to provide its TI Registration Id within the request.	User	Energy Supplier	Get Tariff Names	TI API
4.2.4	Following 4.2.3 where the message passes synchronous validation.	Share requested Tariff details. If the request relates to Consumer Specific Tariff Information e.g. a request for the Tariff Name associated with a specific Metering Point, then the Energy Supplier shall validate that Consumer consent is in place.	Energy Supplier	User	Tariff Name Response	TI API
4.2.5	At any time, where the user knows the Tariff Contract Name.	Submit request for Tariff Pricing Data.	User	Energy Supplier	Get Tariff Pricing Details	TI API
4.2.6	Following 4.2.5 where the message passes synchronous validation	Share requested Tariff Pricing Data	Energy Supplier	User	Tariff Pricing Data Response	TI API

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Accessing Tariff Pricing Data



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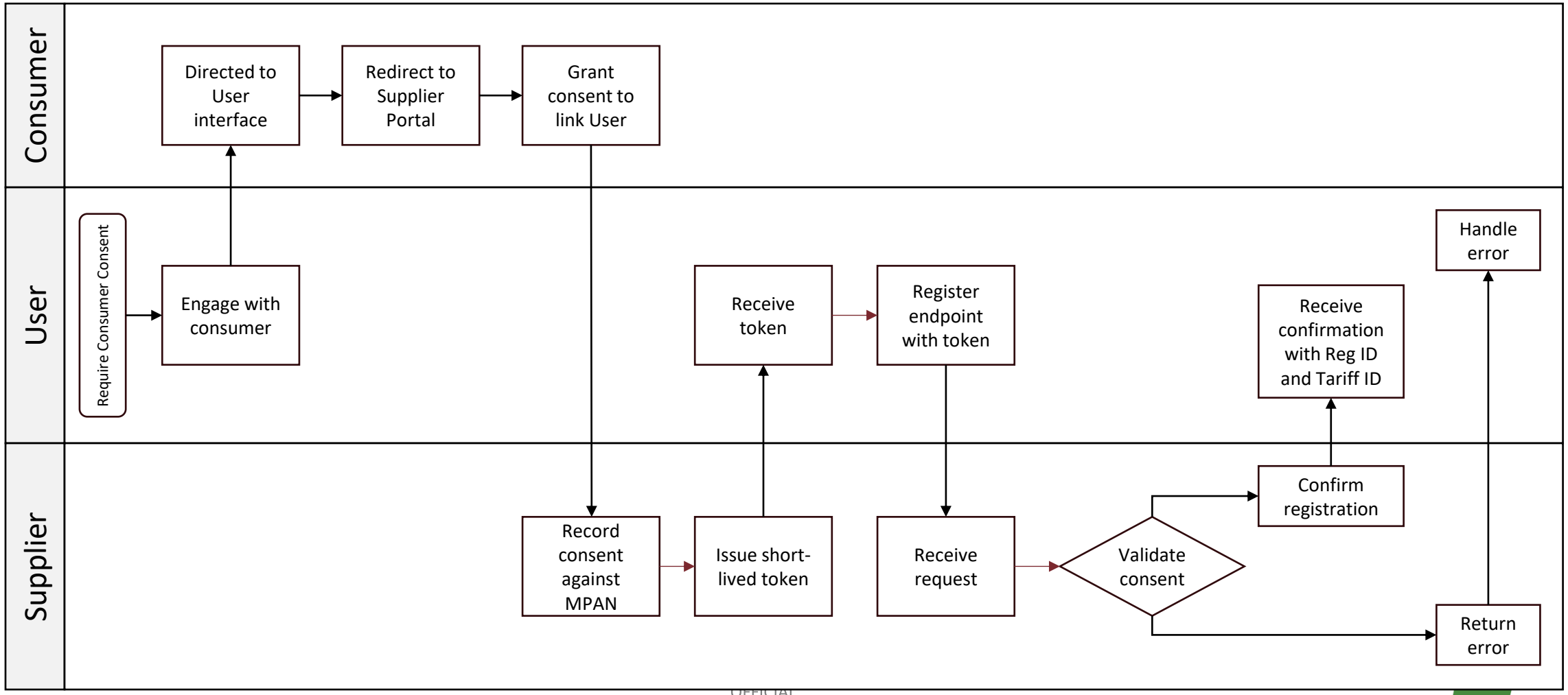
Establishing Access to Consumer Specific Tariff Information

Ref	When	Action	From	To	Interface	Means
4.3.1	As required	Engage with Consumer to agree services. Consumer to be diverted to Energy Supplier portal in order to grant consent in accordance with OAUTH2 protocol.	User	Consumer	Not defined	-
4.3.2	Following 4.3.1 where Consumer grants consent for a specific RTIS User to access their Consumer Specific Tariff Information.	Record Consumer consent against specific Metering Point and Registered Tariff Interoperability Scheme User and provide short lived access token.	Energy Supplier	-User	Not defined	--
4.3.3	Following 4.3.2	Register user endpoint with the relevant Energy Supplier to enable access to Consumer Specific Tariff Information. The Registered Tariff Interoperability Scheme User shall provide its short lived access token, provided as part of the Consumer consent step.	User	Energy Supplier	TI Registration Request	TI API
4.3.4	Following 4.3.3 where the message passes synchronous validation.	Validate Consumer consent is in place and provide TI Registration Id and Tariff Names for the relevant Metering Points.	Energy Supplier	User	TI Registration Response	TI API

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Establishing Access to Consumer Specific Tariff Information



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Event Notifications

Ref	When	Action	From	To	Interface	Means
Changes of Tariff / Non Domestic Contract						
4.4.1	Within [60 mins] of a Consumer requesting to a change to a different Tariff.	Provide details of new Tariff details.	Energy Supplier	User	Tariff Interoperability Event Notification	TI API
4.4.2	Following 4.4.1 where the message passes synchronous validation.	Update the Consumer's tariff information and request Tariff Pricing Data via the public route (see Paragraph 4.2) if required.	User	-	Internal Process	-
Change to the unit rate or time variables associated with the Consumer's Tariff						
4.4.3	By 22:00 on the day before a change is made to the unit rate or time variables associated with the Consumer's Tariff	Provide notification that a change to the Tariff Pricing Data has occurred	Energy Supplier	User	Tariff Interoperability Event Notification	TI API
4.4.4	Following 4.4.3 where the message passes synchronous validation.	Request Tariff Pricing Data via the public route (see Paragraph 4.2).	User	-	Internal Process	-

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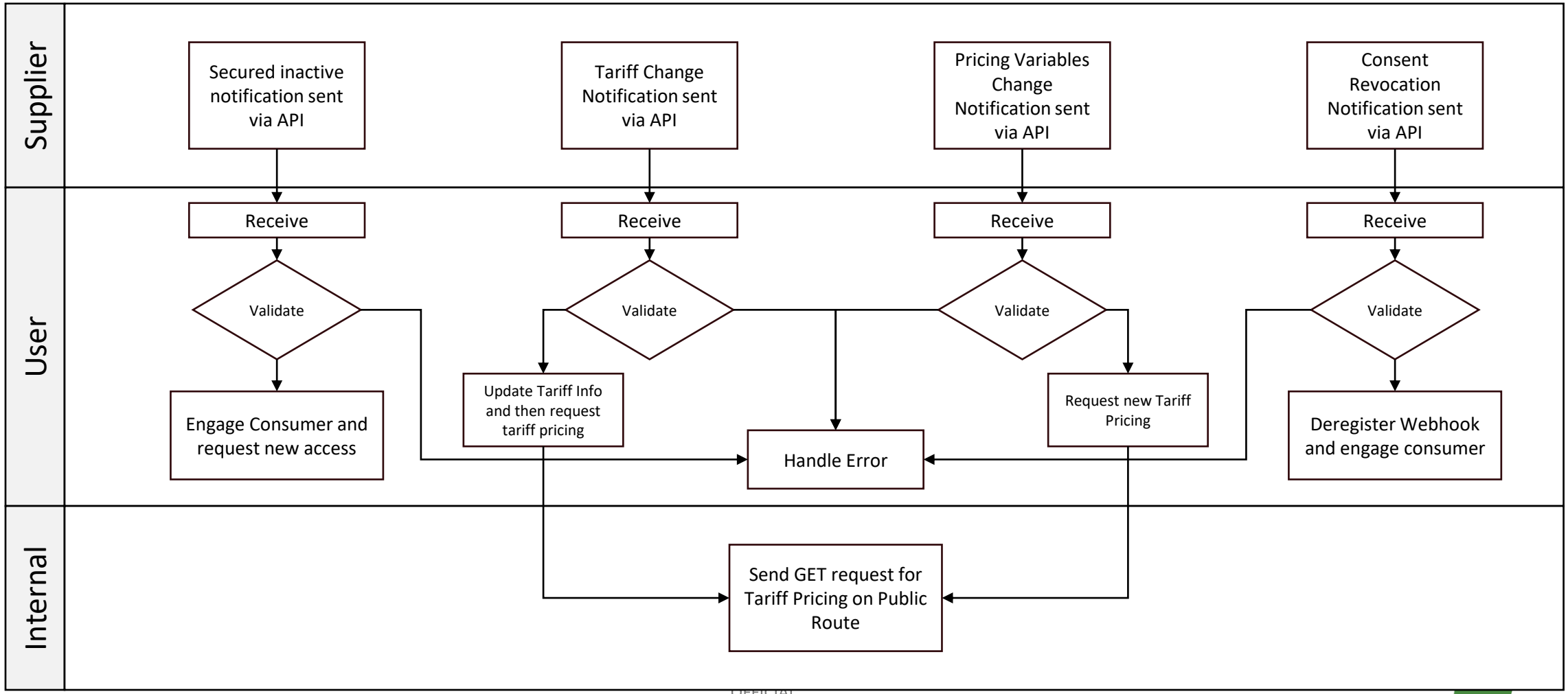
Event Notifications

Ref	When	Action	From	To	Interface	Means
Termination of the Supplier Registration						
4.3.5	Within [60 mins] of receipt of a Secured Inactive Notification from CSS.	Provide notification that the Consumer is no longer Registered.	Energy Supplier	User	Tariff Interoperability Event Notification	TI API
4.3.6	Following 4.4.5 where the message passes synchronous validation.	Engage with Consumer to determine the new Registered Supplier and initiate a new request for access to Consumer Specific Tariff Information (see Paragraph 4.3), if required	User	-	Internal Process	-
Revocation of Consumer Consent						
4.3.7	Within [60 mins] of the Consumer revoking its consent to sharing Consumer Specific Tariff Information.	Provide notification that the Consumer consent is no longer in place,	Energy Supplier	User	Tariff Interoperability Event Notification	TI API
4.3.8	Following 4.3.7 where the message passes synchronous validation	De-register webhook associated with the specific Consumer (see Paragraph 4.3) and engage with the Consumer as required.	User	-	Internal Process	-

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Event Notifications



QUESTIONS

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AOB

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UPDATES TO THE TISWG SCHEDULE

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As the documentation that we continue to develop becomes more complex, we are aware that stakeholder require additional time to provide robust review and feedback. Accordingly, we are making some adjustments to the TISWG schedule.

Ref	Activity	Start Date	End Date
1	**API Specification including Data Standard**		
1.1	Share API Specification with TISWG members for feedback.	Tues 22 July	Tues 22 July
1.2	Return of feedback from TISWG members.	Tues 29 July	Tues 29 July
1.3	Present initial view of API Specification and feedback at TISWG	Thurs 7 August	Thurs 7 August
1.4	Revise API Specification with additional TISWG feedback	Thurs 7 August	Fri 15 August
1.5	Present updated version for discussion and agreement at TISWG	Thurs 21 August	Thurs 21 August
2	**User Access Agreement**		
2.1	Issue to TISWG members for review and feedback	Mon 4 August	Mon 4 August
2.2	Return of feedback from TISWG members.	Mon 11 August	Mon 11 August
2.3	Present updated version with feedback updated for discussion and agreement at TISWG	Thurs 14 August	Thurs 14 August
3	**REC Drafting**		
3.1	Issue to TISWG members for feedback	Tues 19 August	Tues 19 August
3.2	Return of feedback from TISWG members.	Tues 26 August	Tues 26 August
3.3	Present updated version with feedback updated for discussion and agreement at TISWG	Thurs 28 August	Thurs 28 August
3.4	Make additional changes post TISWG feedback (if required)	Fri 29 August	Fri 5 September

UPDATES TO THE TISWG SCHEDULE

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As the documentation that we continue to develop becomes more complex, we are aware that stakeholder require additional time to provide robust review and feedback. Accordingly, we are making some adjustments to the TISWG schedule.

TISWG No.	Topic	Current Date	Revised Date
Seven	API Specification	Thursday 24 Jul 2025	Thursday 07 Aug 2025
Eight	Governance Framework	Thursday 31 Jul 2025	Thursday 14 Aug 2025
Nine	API Specification	Thursday 07 Aug 2025	Thursday 21 Aug 2025
Ten	Code Drafting Finalisation and Consultation Next Steps	Thursday 14 Aug 2025	Thursday 28 Aug 2025
Eleven	Further Action (HOLD)	Thursday 21 Aug 2025	Thursday 04 Sep 2025

The revised schedule ensures that stakeholders have enough time for adequate review, while also not impacting on our key milestone date of finalising the REC and consultation drafting on Friday 12 September