

QTF User Guide



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1 Document

1.1 Purpose

This document provides a User Guide for Qualifying Parties (QPs) in their use of the Qualification Testing Framework (QTF). The content of this document will also be accessible via web pages that will be accessed by an online help facility implemented in the QTF User Interface. Once populated, any changes to the online help will be made directly in the web pages. For purposes of clarity, there is no intention to maintain this document once the QTF is live, and the initial set of web pages have been created.

1.2 Scope

This document only contains help and guidance for QTF screens that are used by External QTF Users.

1.3 Structure of document

This document is structured by QTF screen. Each screen within the QTF will have a “Help and guidance +” heading in the top right-hand corner. This is an "accordion" control: clicking on it will display a set of help options relevant to the host screen. Clicking on an option opens a new tab in the browser showing an online help page giving information about the selected option.

This document contains a section for each screen accordion with sub-sections for each of its help options containing the contents of the associated linked help page.

Within this document, Level 1 headings correspond to the host screen and Level 2 headings correspond to help options within the help accordion of that screen. The exception to this is section 9 “The Evidence screens” in which Level 2 headings are used to describe the individual Evidence screens.

Table 1, below, describes the QTF Screens and their associated help options and provides links to the relevant section within this document.

Screen	Level 1 help title	Section
Getting started	QT introduction	2.1
	Qualification activities	2.2
	Overview of Qualification Testing Pre-requisites	2.3
	MPIDs and Market Roles	2.4
	Logging onto the QTF	2.5
	Glossary	2.5.1
	Information boxes	2.6
The QP Dashboard screen	Tour of the screen	5.1
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Screen	Level 1 help title	Section
The Test screen	Tour of the screen	7.1
	Running a QTC	7.2
	Resuming/failing a QTC Run	7.3
	Blocking/unblocking QTCs	7.4
	Providing/viewing evidence	7.5
	Central System Scheduled Activities	3
The Start New Run screen	Test MPANs	8.1
	Tour of the screen	8.2
	Migrating an MPAN	8.3
The Evidence screens	Introduction	9.1
	The Upload QP Evidence screen	9.2
	The Review QP Evidence screen	9.3
	The View QTF Evidence screen	9.4
	The Evidence Item screen	9.5
The Test Run Log screen	Tour of the screen	10.1
The Message Check screen	Introduction	11.1
	Tour of the screen	11.2
The View All Runs screen	Introduction	12.1
	Tour of the screen	12.2
Assessment	Introduction	13.1

Table 1: QTF Screens and help options.

1.4 Getting started

Section 2 Getting Started help is a generic help resource that should be accessible from every help accordion as the last help option.

1.5 FAQ

Section 4 FAQ is a list of answers to frequently asked questions. It is anticipated that this will be updated frequently in response to feedback from QPs. The resource should be accessible from every help accordion as the last help option.

1.6 References

Ref	Title	Version	Date	Author
1	MHHS-DEL1118 Qualification Approach and Plan	4.2	16/05/2025	Elexon, DIP Manager and REC Code Bodies

1.7 Version History

Version	Change Date	Author	Comments
0.1	18/06/2025	Shubham Jandyal	Initial Draft for internal review.
0.2	19/06/2025	David Razak	Minor grammar changes and Glossary table moved, updated table of contents page.
1.0	19/06/2025	Andrew Dawson	V1.0 issued

2 Getting Started help

2.1 QT introduction

Parties who wish to operate in the Market-wide Half Hourly Settlement (MHHS) market are required to qualify under the Retail Energy Code (REC) and Balancing and Settlement Code (BSC). Each Party must also be approved as a DIP User before they are MHHS Qualified. This can be achieved either by participating in Systems Integration Testing (SIT) or Qualification.

A component of Qualification is Qualification Testing, in which parties are required to conduct a set of end-to-end business process-based Qualification Test Cases (QTCs) based on those which have been performed in SIT. The required set of QTCs (the *QTC Set*) varies depending on the Market Role for which the party wishes to qualify, giving rise to a QTC Set for each Market Role. The standard QTC Set may also be reduced for an individual party if that party is placing reliance on testing performed previously by a third party and/or has elected to exclude optional functions from their chosen Market Role (e.g. a Supplier electing not to qualify for unmetered MPANs).

Parties conduct QT within the Qualification Test Framework (QTF); an environment designed to support parties in executing all QTCs within their QTC Set, including the collection of evidence to support QT assurance. Parties will have access to webinars or webinar recordings demonstrating how to use the QTF. In addition, online help is accessible from each QTF screen.

2.2 Qualification activities

Achieving Qualification requires a Qualifying Party to complete several activities, one of which is Qualification Testing. Some of the other activities must be completed in advance of commencing Qualification Testing. The full set of Qualification Activities is set out in [Ref 1].

2.3 Overview of QT Pre-requisites

The pre-requisites to commencing QT in the QTF include:

- onboarding onto the DIP.
- onboarding Qualifying Party system(s) to the QTF.
- onboarding of QTF Users to the QTF.
- onboarding QTF Users to ADO.
- loading Test MPANs (Suppliers only).
- loading Test Market Domain Data (Suppliers only).

The Non-SIT S&A QT Testing Team will assist you in these pre-requisite activities.

2.4 MPIDs and Market Roles

Your organisation will have one or more Market Participant IDs (MPIDs) and each MPID will have one or more Market Roles (i.e. Supplier, Meter Service Smart (MSS), Meter Service Advance (MSA), Smart Data Service (SDS), Advanced Data Service (ADS) and Unmetered Data Service (UMSDS)) associated with it.

As part of Qualification on-boarding, you will be allocated a QTC Set for each unique combination of MPID and Market Role. This will be based on the standard QTC Set for the Market Role in question, with zero or more QTCs excluded, depending on any reliance you may be placing on third parties and/or optionality that you have chosen to invoke that has been agreed with the Code Bodies and DIP Manager.

Your organisation will have provided a list of individuals authorised to perform Qualification Testing (QTF Users). The Non-SIT S&A QT Testing Team will grant each QTF User access to one or more of your organisation's MPID/Market Role combinations depending on your requirements. Once granted access to a MPID/Market Role, a QTF User will have access to run QTCs, view data relating to QTC Runs and perform all other QTF functionality relating to that MPID/Market Role combination.

2.5 Logging onto the QTF

The QTF is housed in the Microsoft Azure Cloud. Access to the QTF is by invitation via Entra and you'll be logged in as a guest using your own network credentials and using Multi Factor Authentication (MFA).

Having successfully logged onto the QTF; you will be presented with the QP Dashboard screen (see section 5).

2.5.1 Password Reset

You do not require a separate password to access the QTF as noted in section 2.5 above, so in the event you need a password reset, this will be for your own network and as such you should contact your own organisations service desk to request the same.

2.5.2 Session timeouts

If you are inactive for a period of 70 minutes, the QTF will automatically end your session, and you will have to login again.

2.6 Glossary

The abbreviations and acronyms used in this document have been listed in the following table-.

Table 2: Terminology

Term	Description
ADS	Advanced Data Service
CSS	Central Switching Service
EES	Electricity Enquiry Service
ISD	Industry Standing Data
LDSO	Licensed Distribution System Operator
LSS	Load Shaping Service
Market Role	One of MSS, MSA, SDS, ADS, UMSDS or Supplier.
MDD	Market Domain Data
MDS	Market Wide Data Service
MSA	Metering Services Advanced
MSS	Metering Service Smart
QP	Qualifying Party: A Supplier or Agent seeking qualification for one or more Market Roles.
QP Evidence	Evidence collected and uploaded to ADO via the QTF by the QP following execution of a QU QTS.
QT	<i>Qualification Testing</i> : The testing required for a QP to qualify for a specific MPID/Market Role that is conducted within the QTF.
QTC	Qualification Test Case: A single, end-to-end test conducted within the QTF comprising Qualification Test Steps (QTSs).
QTC ID	Qualification Test Case Identification Number, e.g. QT-001.
QTC Run	A single execution of a QTC. A QTC Run may succeed or fail.
QTC Run Test Log	A downloadable log containing details of a specific QTC Run.
QTC Run Status	The status of a QTC Run; one of In Progress, Paused, Blocked, Passed, Failed or Not Run.
QTC Set	Qualification Test Case Set: The set of QTCs relating to a specific Market Role.
QTF	Qualification Test Framework: A test harness within which a QTF User conducts QT and/or Sandbox testing (if the QTF is approved for Sandbox testing).
QTF QTS	A Qualification Test Step (QTS) performed by the Qualification Test Framework (QTF).
QTF User	An authorised party making use of the QTF. This includes both parties seeking qualification and those that have qualified, should the QTF be used for Sandbox testing.
QTF Evidence	Evidence automatically saved to ADO following execution of a QTS by the QTF.
QTS	Qualification Test Step: A single step within a QTC performed either by the Qualifying Party or the QTF.
QU QTS	A Qualification Test Step (QTS) performed by the Qualification Test Framework (QTF) User.

Term	Description
REGS	Registration Service
SDS	Smart Data Service
SUP	Supplier
UMSDS	Unmetered Supplies Data Service

2.7 Information boxes



Green boxes with the information icon are used to provide additional context which may be of use to the QTF User when using the screen or function being described.



Red boxes with the hazard icon are used to provide warnings relevant to the function that is being described.

3 Central System Scheduled Activities

There are some activities performed by Central Systems that occur independently from QTSs performed by QPs. These activities result in messages being delivered to all parties of specific Market Roles, regardless of whether the party is currently executing a QTS requiring these messages. Two such activities are supported within the QTF, these being:

- Publication of Load Shapes and Load Shape Totals.
- Publication of Industry Standing Data (ISD).

3.1 Load Shapes and Load Shape Totals

In Production, Load Shape Period Data (IF-022) and Load Shape Totals Data (IF-023) will be published by the Load Shaping Service (LSS) by 12:00 four calendar days after the Settlement Day in question. These message flows are required for a subset of QTSs involving processing of consumption data. To speed up QT, the QTF will publish these messages one calendar day after the Settlement Day in question. The QTF will only publish Load Shapes for the Load Shape Categories required for QT (i.e. a subset of combinations of Load Shape GSP Group ID, Connection Type Indicator, Market Segment Indicator, Load Shape Domestic Premise Indicator and Measurement Quantity ID).

The same set of Load Shapes will be generated by the QTF every day at 08:00 (UTC) for the previous UTC Settlement Date to ensure that Load Shapes are available to all QPs who require them. Expected results for consumption QTCs will be based on the values contained in these Load Shapes and those of the consumption/export values used in the individual QTCs.

3.2 Industry Standing Data (ISD)

In Production, ISD will be published monthly according to the ISD Publication Schedule; the publication being notified to parties via an IF-047 message. For QT, the Non-SIT Supplier and Agent team will initiate an IF-047 on request to enable QPs to commence QT in a timely manner. This IF-047 is a “Full” set (i.e. "distributionVariantName": "ISD Full") and will be sent to all MPID/Market Roles who are on-boarded to the QTF at the time of sending.



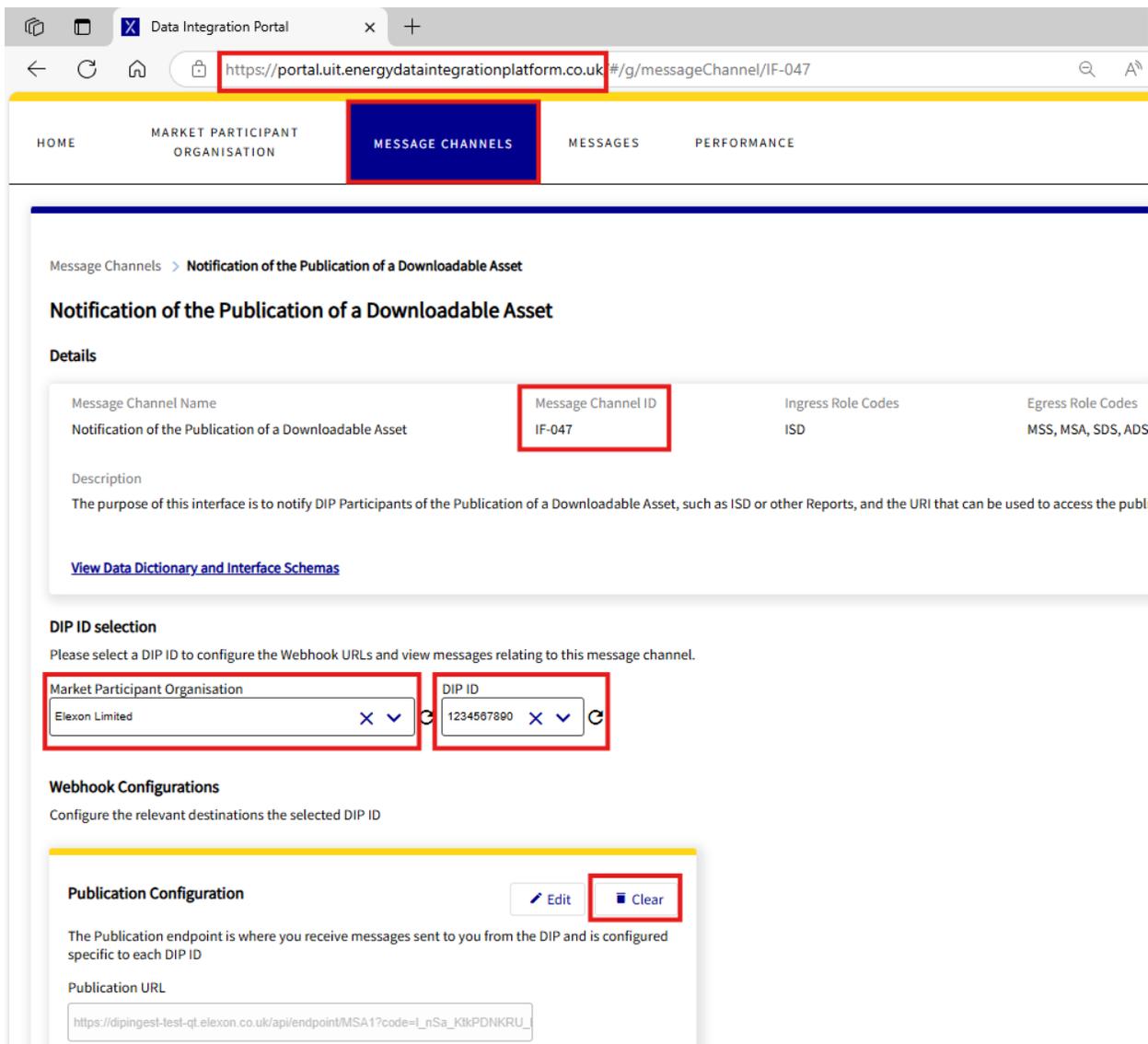
If receipt of IF-047s is likely to trigger unwanted activity within your system(s), you can use the DIP Portal to unsubscribe from these messages once you have passed the ISD-related QTCs within your QTC Set.

3.2.1 Unsubscribing from the IF-047

All Qualifying Parties will be required to load a Qualification set of ISD. The process for doing so will be receipt and processing of an IF-047 which will be the first QTC to be executed in **each** Qualifying Party's QTC Set.

Each time an IF-047 is sent by the QTF, the DIP sends the corresponding PUB-047 to all roles. The QTF will trigger multiple IF-047 messages (once per Qualifying Party running their first QTC), and each Qualifying Party connected to the UIT DIP will receive the PUB-047 message. The only changes expected to the contents of ISD during Qualification will be the addition of Qualifying Parties details in Market Participant Organisations (ISD Entity ID 1), Market Participant to DIP Participant Mappings (ISD Entity ID M16) and Market Participant Role (ISD Entity ID 45). Therefore, Qualifying Parties that download and apply their ISD automatically may want to consider deactivating the message channel following successful receipt of IF-047 to prevent this reapplication of near duplicate ISD.

This can be achieved on the DIP Portal, by Clearing the Publication Configuration Webhook for the specific Market Participant Organisation and DIP ID in the Message Channels tab for the IF-047.



4 FAQ

4.1 All effective dates must fall on working-days

Although it should be possible to perform activities such as MPAN migrations on non-working days, the QTF only supports activities performed on working days, specifically weekdays (i.e. Bank Holidays are counted as working days). If, for example, when migrating an MPAN, the QTC requires the migration to be conducted retrospectively -5 days, hence, ensure that the Metering Services and Data Services appointment dates fall on working days.

4.2 The PUB-036 received from the QTF Registration simulator includes meter type RCAMR. Should the meter type now be 'H' given the D0149/150/313 MTDs have been transformed into a D0268?

RCAMR is a valid meter type (and is included in ISD ValidMarketSegmentConnectionMeterTypeMeterGroup) and therefore it should remain as RCAMR.

4.3 During an MHHS migration, what should the reading date be on the D0010 sent by the outgoing NHHDC?

For example, if an MHHS migration was initiated using a proposed date of 13th Jan 2025, the J0016 Reading Date & Time be on the D0010 sent by the outgoing NHHDC should be 20250113000000. The MHHS Programme Design team have confirmed that as the transfer date is the 13th the expectation is that the D0010 read should be midnight on the 13th and not midnight on the 12th as a day too early. Should it be a smart meter the read would be from the daily read log on the 13th or deemed for the 13th on the trad meter.

4.4 Why are some DIP blocks/fields and DTN data items not populated?

To simplify the data within QTCs, any optional blocks or data items are not populated or present unless the QTC explicitly requires them.

4.5 Can DTN files be batched – e.g. 2 MPANs in the same DTN message?

No. The QTF requires one MPAN per DTN file including for Linked or Related examples.

4.6 Can DIP messages be batched – e.g. 2 MPANs in the same DIP message?

No. The QTF requires one MPAN M0 block per DIP message including for Linked or Related examples. For DIP messages that include blocks with Linked or Related MPAN details (for instance IF-033 B908List for Related), these must be populated where necessary.

4.7 How long will the QTF wait for a DTN or DIP message after resuming a QTC?

After resuming a QTC, the QTF will wait up to 10 minutes to receive a DIP or DTN message. If the message is received within 10 minutes, the QTC will continue onto the next step immediately once it has received the message. If the message is not received within 10 minutes, the receive QTS and the QTC will fail.

Therefore, you should only resume the QTC Run once you are satisfied that the QP system(s) have completed the action(s) associated with the QP QTS (and received an ACK file where appropriate) and you have captured and (optionally) uploaded the appropriate evidence to demonstrate that this has happened.

5 The QP Dashboard screen

5.1 Tour of the screen

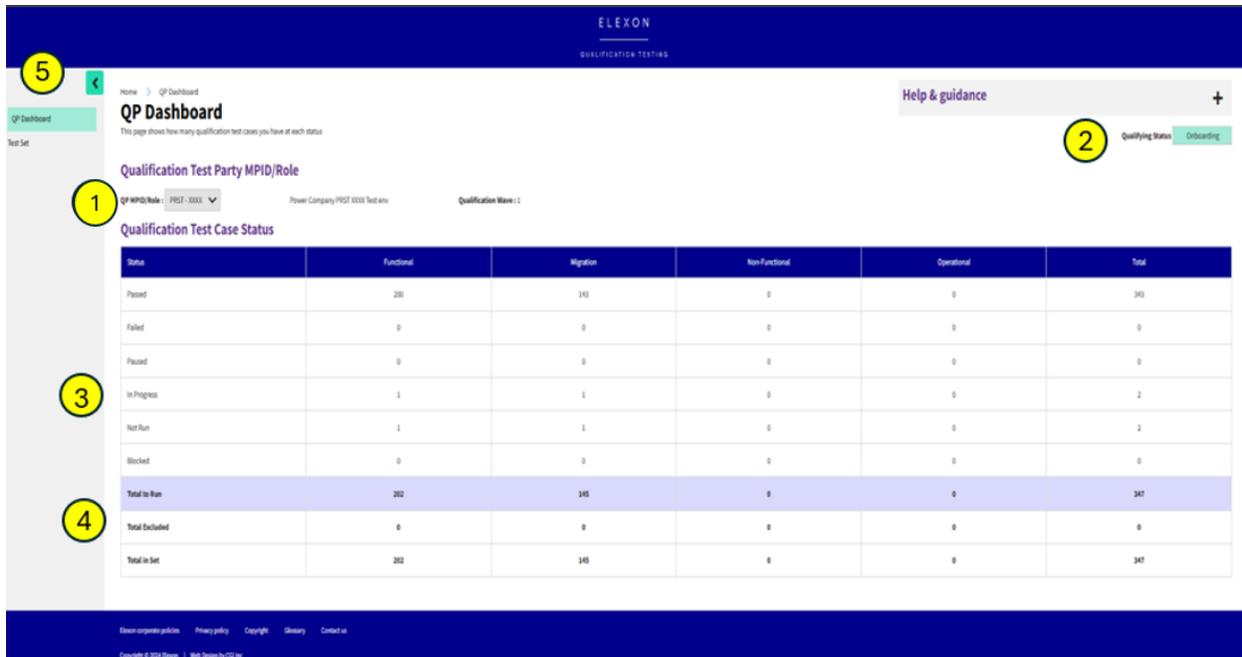


Figure 1: QP Dashboard

The QP Dashboard (Figure 1) provides an overview of a Qualifying Party's progress in Qualification Testing. The yellow numbers indicate portions of the screen described below. You will have access to QP Dashboards for each MPID/Market Role combination to which you've been assigned.



There is a standard collection of QTCs (a QTC Set) that a QP must successfully complete to qualify for a given Market Role. This may be reduced by placing reliance on testing already performed by a third party and/or electing to remove optional QTCs (e.g. removal of QTCs relating to unmetered supplies for Suppliers not operating unmetered supplies). In both cases, this needs to be agreed with the Code Bodies prior to on-boarding Qualifying Party system(s) to the QTF.

The QP Dashboard [Figure 1] allows you to:

1. select the MPID/Market Role
2. see the overall Qualifying Status of your MPID/Market Role
3. view the QTC Statuses of the QTCs within the QT Set of the selected MPID/Market Role combination

4. view the number of QTCs that have been excluded from the standard QTC Set due to placing reliance and/or optionality
5. navigate to the Test Set screen (section 6) to view a list of QTCs in your QTC Set

5.2 Assessment

Once you have successfully completed all QTCs in your QTC Set and uploaded all required evidence, you can submit the QTC Set for Assessment (section 13) by clicking on the Submit button as seen in Figure 1a below.

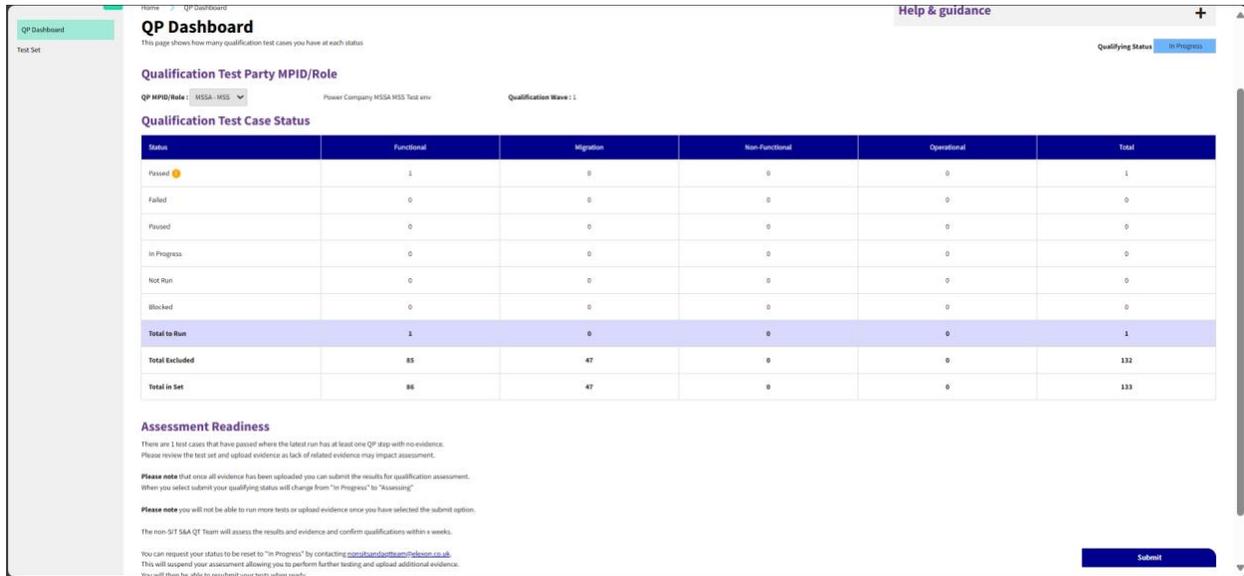


Figure 1a: QP Dashboard Assessment Ready

The Submit button is only enabled once all the QTCs within your QTC Set have a QTC Status of Passed.

Your QTC Set is the full set of QTCs that you must pass to qualify. Once you have submitted your QTC Set, you will not be able to re-run any QTCs or upload/delete evidence. Only submit your QTC Set when you are confident that you have uploaded all required evidence.

You can view the QTCs that comprise the QTC Set associated with your selected MPID/Market Role by clicking on the Test Set [Figure 1.5] link. This will take you to the Test Set screen (section 6).

6 The Test Set screen

6.1 Tour of the screen

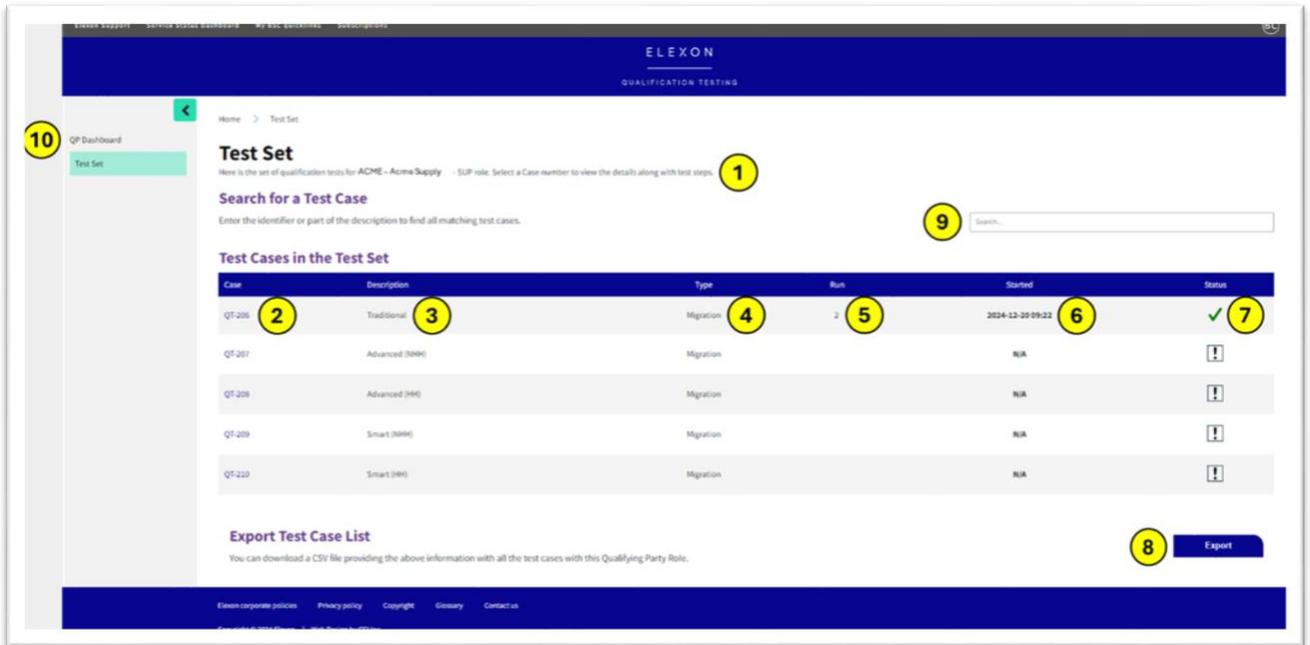


Figure 2: Test Set Screen

The Test Set screen (Figure 2) displays a list of the QTCs in the QTC Set for the selected MPID/Market Role. The yellow numbers indicate portions of the screen described below.



The Test Set screen does not show excluded QTCs; only QTCs that you must complete for qualification.

The Test Set screen [Figure 2] shows.

1. Test Set details
2. QTC ID – the Qualification Test Case Identifier (number, e.g. QT-001)
3. A description of the QTC
4. QTC type – Functional or Migration
5. the number of times the QTC has been run
6. the date and time the last QTC Run were triggered
7. the QTC Run Status of the last QTC Run
8. Export All button – this allows you to download the information contained within the Test Set screen to your local directory
9. Search box allows you to specify a QTC ID, description or run status
10. The sidebar menu allows you to navigate back to the QP Dashboard

A QTC can have one of the following statuses, each denoted by an icon.

Passed		The last QTC Run was successful.
Failed		The last QTC Run was either marked as failed by the QTF User or was failed by the QTF due to unexpected QP activity.
Paused		A QTC Run is paused and waiting for a QTF User to resume it.
In Progress		A QTC Run is in progress and waiting for the QTF to complete an action.
Not Run		The QTC has not yet been run.
Blocked		The QTC has been blocked by a QTF User

The Test Screen also displays an icon next to a QTC if one or more expected items of QP Evidence for that QTC have yet to be uploaded to the QTF, see example below.

Step 90 Upload Evidence ADSI receives PUB-033 [DSAppSPRequest] from the DIP QP 0

Some QTCs may appear more than once in your QTC Set. This occurs when you have to run the QTC as different roles. For example, a Change of Supplier QTC may need to be run as both a gaining and losing Supplier.

7 The Test Screen

7.1 Tour of the screen

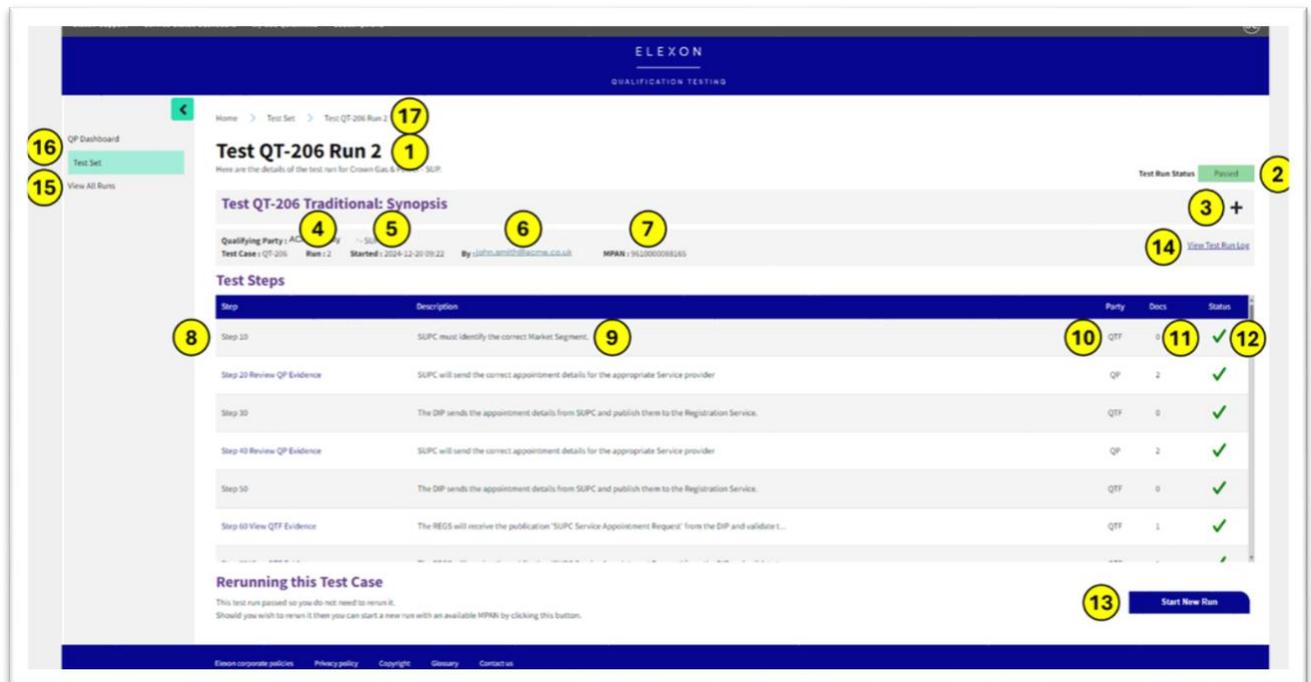


Figure 3: The Test Screen

The Test screen (Figure 3) displays all test steps (QTS) associated with the selected QTC, the yellow numbers indicate portions of the screen described below.



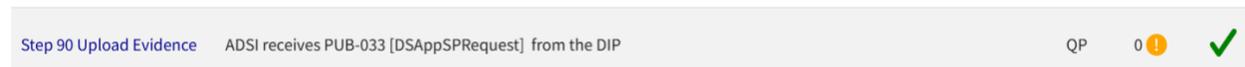
Most QTC Runs can be completed in a matter of minutes, however, some have dependencies on scheduled activities (e.g. receipt of Load Shapes). Where there are such dependencies, efforts have been made to minimise the duration of the QTC Run, however, some will span multiple days.

The Test Screen provides the following information.

1. QTC – Qualification Test Case number/id
2. Test Run Status – Not Run, In Progress, Passed, Failed, Blocked
3. Plus Symbol (+) – The test case synopsis details can be found here. Each QTC includes a synopsis which describes the purpose of the test and the market segment to which it applies. The synopsis follows a standard format that includes:
 - the QTC ID.
 - the business scenario that the QTC is testing.
 - the Test Data requirements, including the meter type and MPAN type.

- additional test information.
 - the minimum duration of the QTC Run.
4. Test Run Number (e.g. 2 means this test case has been run once before)
 5. Started – this is timestamp of this test run
 6. Details who was responsible for triggering the last test run
 7. the principal MPAN used in the test run
 8. the Step Number
 9. a description of what is happening in the Test Step
 10. the Party performing the Test Step (this is either “QP” if the Test Step involves the Qualifying Party’s systems or “QTF” if the Test Step is being simulated by the QTF)
 11. the number of documents that have been uploaded as evidence for the QTS (see section 9)
 12. the status of the QTS.
 13. Start New Run – click here to initiate a test run
 14. View Test Run Log – allows you to see the details behind each test step processed
 15. View All Runs - allows you to view all previous runs of this QTC and any onboarding QTC if applicable
 16. Side Bar Menu – allows you to navigate back to the Test Set or the QP Dashboard
 17. Breadcrumb trail

For QP QTSs which require you to upload evidence but for which (as yet) no documents have been uploaded, the Test screen includes an orange warning icon, see example below



7.2 Running a QTC

The Test screen is the screen from which you can initiate and monitor a QTC Run. A QTC is a representation of an end-to-end business process in which all Market Roles other than that of your QP are performed by the QTF. As such, a QTF Qualification Test Step (QTF QTS) is executed automatically by the QTF whereas a QP Qualification Test Step (QP QTS) requires action(s) from the QP. As such, the QTF pauses at each QP QTS to allow the QP system(s) to perform the required action(s) and provide an opportunity for you to load evidence that this has taken place.

Once the necessary actions have been performed and you have (optionally) uploaded the required evidence, you need to tell the QTF to resume execution of the QTC Run (see section 7.3). If, when paused at a QP QTS, you find an error in the QP system(s) response which prevents completion of the QTC Run, you can manually fail the QTC Run.



Please note that it is not mandatory for you to upload evidence during the execution of the QTC. This can be done at any time following execution of the QTC, but all required evidence needs to have been uploaded before submitting the QTC Set for Assessment (see section 13).

You initiate a new QTC Run by clicking on the Start New Run button [Figure 3, No.13]. This will take you to the Start New Run screen (see section 8) from which you can select the MPAN or MPAN Set to be used in the QTC Run.

If the selected MPAN/MPAN Set needs to be in MHHS and has not yet been migrated to MHHS, you will be prompted to run the appropriate Onboarding QTC to migrate the MPAN/MPAN Set. Having successfully migrated the MPAN/MPAN Set, you will be returned to the Start New Run screen from which you can initiate a run of the chosen QTC. For more information on initiating a QTC Run, look at the Start New Run screen help (see section 8).



Some QTCs will still require an Onboarding QTC to run even if you are not registered or appointed to the MPAN at the start of the test (e.g. you are a gaining Supplier in a Change of Supplier QTC). If this is the case, the Onboarding QTC should run to completion without the need of any intervention from yourself.

7.3 Resuming/failing a QTC Run

The screenshot shows the 'Test QT-003 Incoming Run 2' page in the ELEXON QTF system. The page displays test details, a table of test steps, and a 'Test Outcome' section. Numbered callouts are placed on the interface as follows:

- 1**: Points to the 'Party' column in the 'Test Steps' table, specifically to the 'QTF' entry for Step 90.
- 2**: Points to the 'Status' column in the 'Test Steps' table, specifically to the 'Failed' icon for Step 90.
- 3**: Points to the 'Docs' column in the 'Test Steps' table, specifically to the '0' icon for Step 90.
- 4**: Points to the 'Step' column in the 'Test Steps' table, specifically to 'Step 90 Upload Evidence'.
- 5**: Points to the 'Fail Test Run' button in the 'Test Outcome' section.
- 6**: Points to the 'Continue Run' button in the 'Test Outcome' section.

Figure 4: Resuming/Failing a QTC Run

Having initiated a QTC Run, the QTF will run all QTF QTSs until a QP QTS is encountered. If the QTC commences with a QP QTS (i.e. the QP system(s) is responsible for triggering the business process)

1. this shows who is responsible for a given step – QTF steps will be completed by the QTF whereas QP steps will be completed by the Qualifying Party running the test, at this point the QTC will be paused.
2. when the QTC Run is paused, the Test screen will show a paused icon next to the appropriate QP
3. a zero combined with a warning symbol denotes that no evidence has yet been loaded for this Test Step
4. The QTS number will become a hyperlink that will take you to the Upload Evidence screen
5. To fail the test run, click on the Fail Test Run button
6. To resume the QTC Run, click on the Continue Run button.



You should only resume the QTC Run once you are satisfied that the QP system(s) have completed the action(s) associated with the QP QTS (and received an ACK file where appropriate) and you have captured and (optionally) uploaded the appropriate evidence to demonstrate that this has happened.

7. If a problem has occurred that has prevented the QP system(s) from successfully completing the QP QTS, you should fail the QTC Run by clicking on the Fail Test Run button. You will be asked to confirm the failure.



Once you have failed a QTC Run, it cannot be resumed or restarted but must be re-run with a new MPAN/MPAN Set.

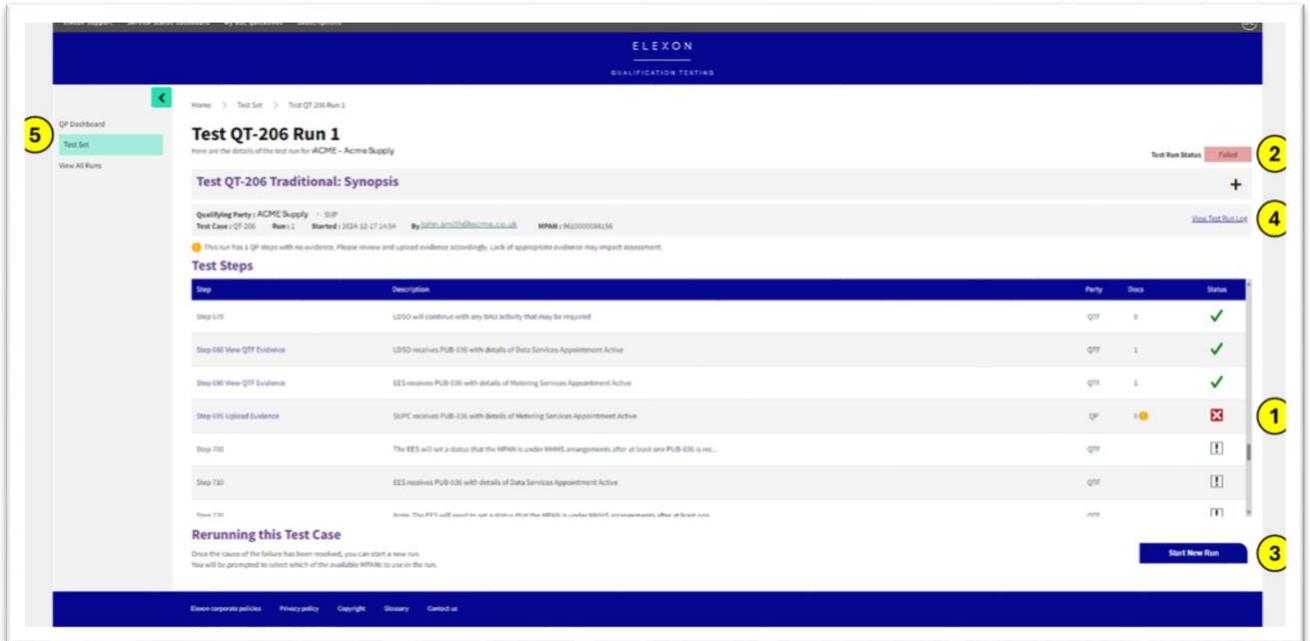


Figure 5: A failed QTC Run

Having failed a QTC Run

1. the QTS Status shows a failed icon
2. the QTC Status will be set to failed. The QTC will also be shown as failed in the QTC Set screen and will contribute to the total of failed QTCs in the QP Dashboard
3. A QTC can be re-run, regardless of its QTC Status (other than “In Progress”), by clicking on the Start New Run Button Note: QTCs can only be re-run once a QTC Run has completed.
4. The QTF maintains a comprehensive chronological Test Run Log of all actions associated with a QTC Run. This can be accessed at any time during or after the QTC Run by clicking on the View Test Run Log link
5. It is possible to view previous QTC Runs of a QTC by clicking on the View All Runs link

7.4 Blocking/unblocking a QTC

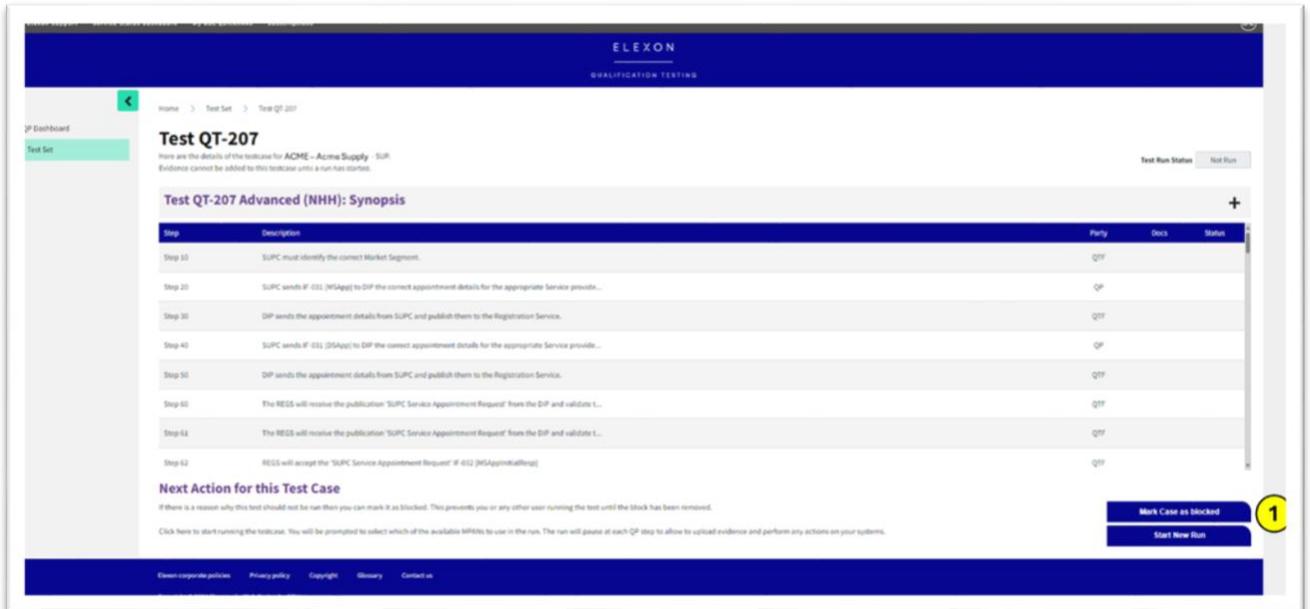


Figure 6: Blocking a QTC

The QTF allows you to block a QTC to prevent anyone from initiating a QTC Run. You may want to do this if you have discovered an issue with the QP System(s) that requires resolution before a QTC can be re-run. Blocking the QTC has the effect of informing all QTF Users with access to the MPID/Market Role that the QTC should not be run.

1. To block a QTC, click on the Mark Case as Blocked button.



You can only block QTCs that have yet to be run or are Failed (i.e. have a status of “Not Run” or “Failed”).

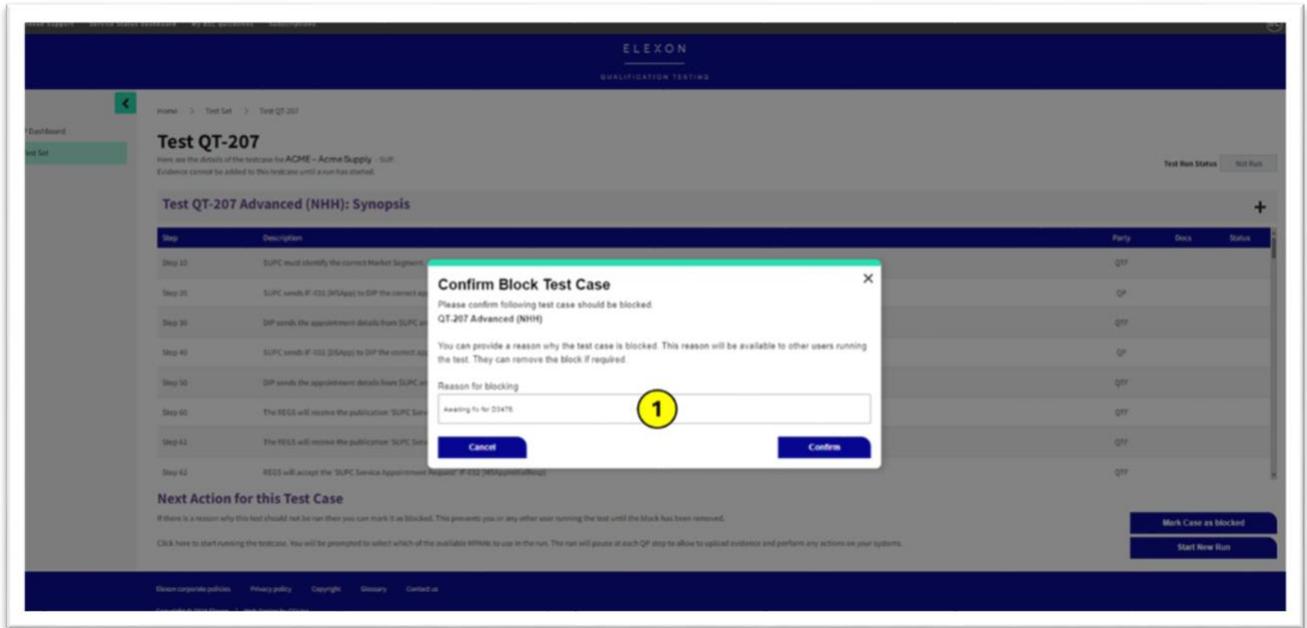


Figure 7: Confirming blocking of a QTC

1. Having clicked on the Mark Case as Blocked button, you will be prompted to (optionally) add a comment as to the reason for blocking and to confirm or cancel the blocking of the QTC.

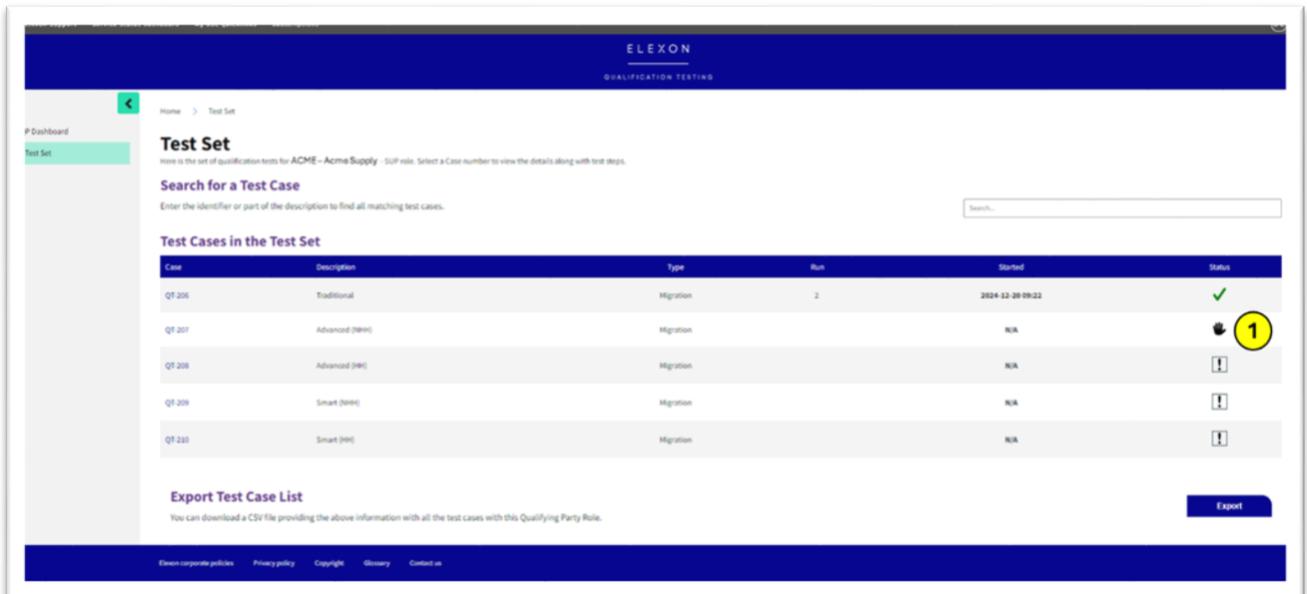


Figure 8: A blocked QTC viewed from the Test Set screen

1. Having confirmed the blocking, the QTC Status of the QTC is updated to Blocked. The QTC will also be shown as blocked in the QTC Set screen and will contribute to the total of blocked QTCs in the QP Dashboard.

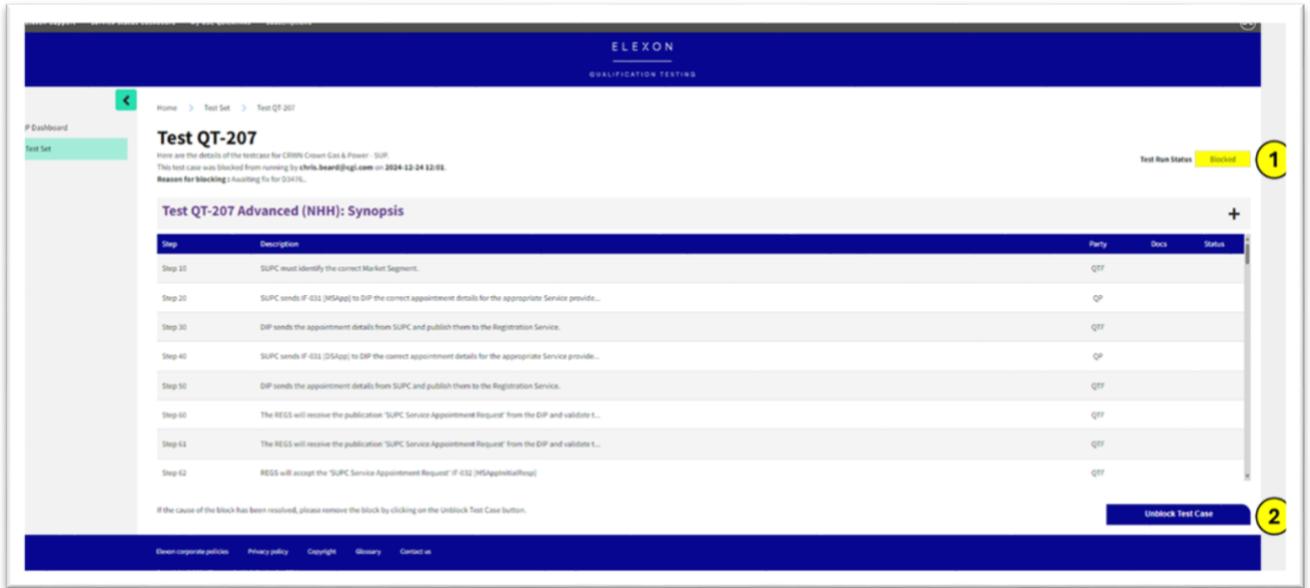


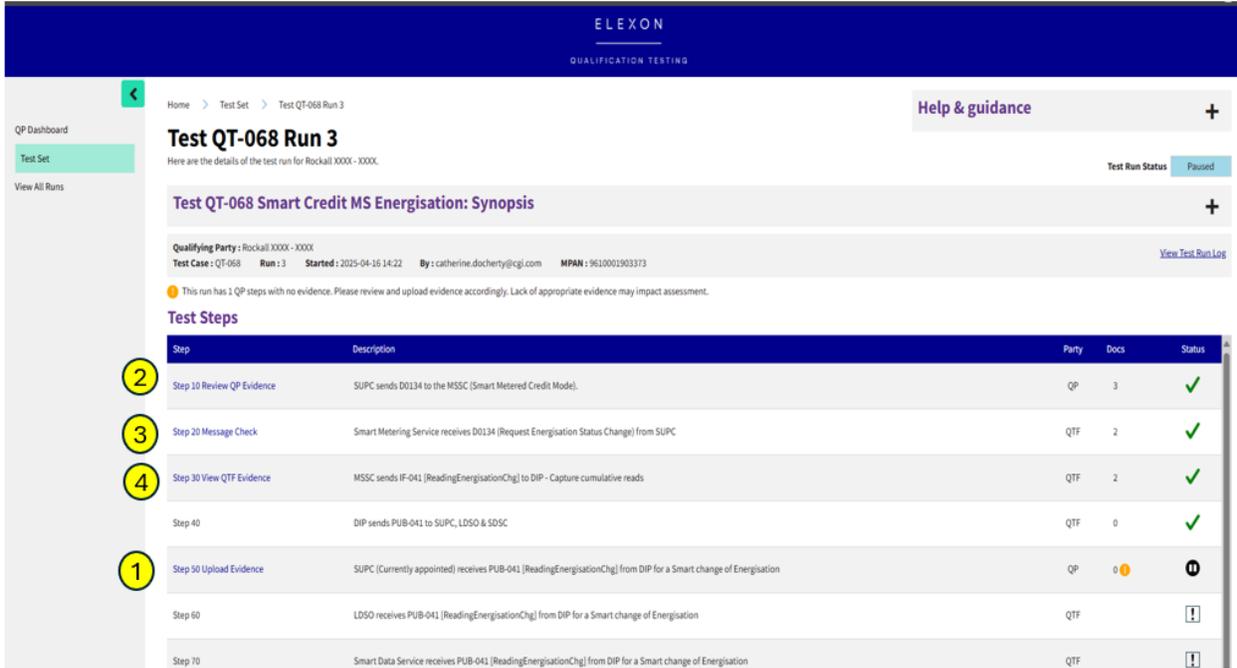
Figure 9: Unblocking a QTC

1. When viewed in the Test screen, a blocked QTC has a QTC Status “Blocked”
2. To unblock a blocked QTC, click on the Unblock Test Case button in the Test. Once unblocked, the QTC will revert to a QTC Status of “Not Run.”



Any QTF User with access to the MPID/Market Role can unblock a blocked QTC, regardless of whether they instigated the block.

7.5 Providing/viewing evidence



Test QT-068 Run 3
Here are the details of the test run for Rockall XXXX - XXXX.

Test QT-068 Smart Credit MS Energisation: Synopsis

Qualifying Party: Rockall XXXX - XXXX
Test Case: QT-068 Run: 3 Started: 2025-04-16 14:22 By: catherine.docherty@cgi.com MPAN: 9610001903373 [View Test Run Log](#)

This run has 1 QP steps with no evidence. Please review and upload evidence accordingly. Lack of appropriate evidence may impact assessment.

Step	Description	Party	Docs	Status
2	Step 10 Review QP Evidence	SUPC sends D0134 to the MSSC (Smart Metered Credit Mode).	QP 3	✓
3	Step 20 Message Check	Smart Metering Service receives D0134 (Request Energisation Status Change) from SUPC	QTF 2	✓
4	Step 30 View QTF Evidence	MSSC sends IF-041 (ReadingEnergisationChg) to DIP - Capture cumulative reads	QTF 2	✓
	Step 40	DIP sends PUB-041 to SUPC, LDSO & SOSC	QTF 0	✓
1	Step 50 Upload Evidence	SUPC (Currently appointed) receives PUB-041 (ReadingEnergisationChg) from DIP for a Smart change of Energisation	QP 0	U
	Step 60	LDSO receives PUB-041 (ReadingEnergisationChg) from DIP for a Smart change of Energisation	QTF	I
	Step 70	Smart Data Service receives PUB-041 (ReadingEnergisationChg) from DIP for a Smart change of Energisation	QTF	I

Figure 10: Providing/viewing evidence and checking messages

In addition to successfully passing each QTC in your QTC Set, Qualification Testing requires you to provide evidence for the each QTS the is a receive message step. In addition to evidence provided by you, the QTF automatically stores evidence against QTF QTSs.

The Test screen includes several hyperlinks that enable the user to perform key actions:

1. upload evidence
2. review any evidence already submitted by the Qualification Participant (QP)
3. review message check comparisons conducted by the Qualification Testing Facility (QTF) on messages received from QP systems
4. view QTF evidence

8 The Start New Run screen

8.1 Test MPANs

Prior to running a QTC, you will need to select an MPAN to be used in the QTC Run.

The Non-SIT Supplier and Agent Team will allocate 20 MPANs/MPAN sets to each QTC within your QTC Set to allow for multiple QTC Runs. Suppliers will be provided with MPAN Files during on-boarding containing details of these MPANs/MPAN sets. If the QTC starts with the QP Supplier being responsible for the MPAN/MPAN sets, then they will need to be loaded into their QP System(s) prior to the start of QT, then migrated to MHHS prior to using them within QTCs. Agents will not be required to populate their QP System(s) with MPANs prior to the start of QT but will be required to migrate their allocated MPANs to MHHS prior to using them in a QTC.



Some QTCs will still require an Onboarding QTC to run even if you are not registered or appointed to the MPAN at the start of the test (e.g. you are a gaining Supplier in a Change of Supplier QTC). If this is the case, the Onboarding QTC should run to completion without the need of any intervention from yourself.

8.2 Tour of the screen

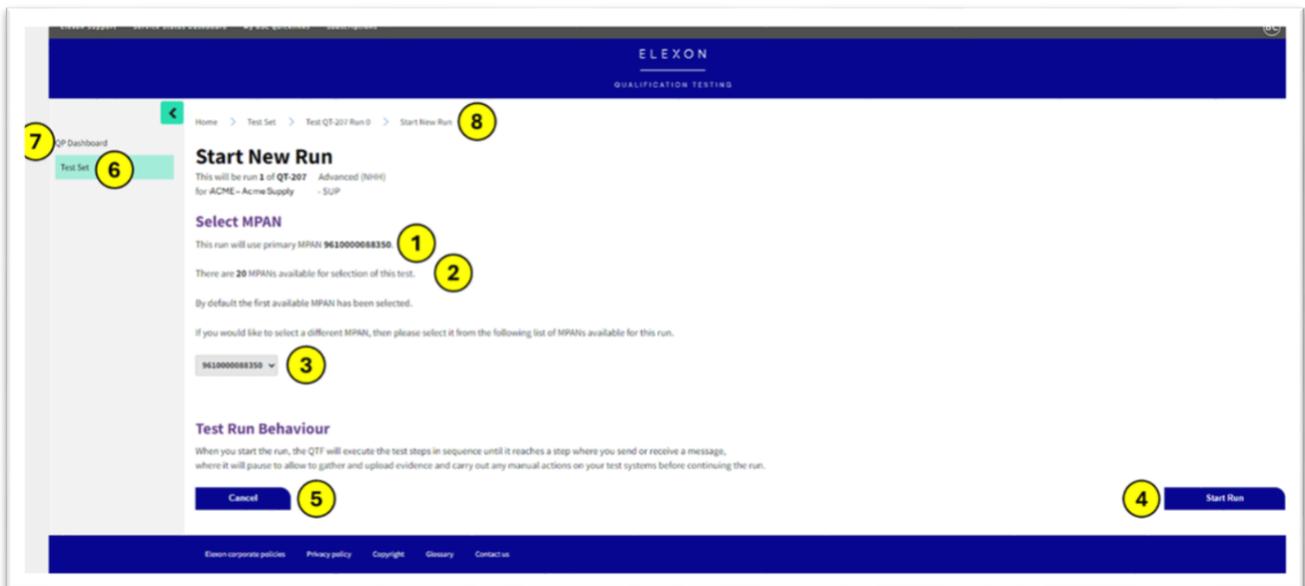


Figure 11: The Start New Run screen (single MPAN)

When initiating a QTC from the Test screen you will be taken to the Start New Run screen [Figure 11]. The yellow numbers indicate portions of the screen described below.

1. The QTF will automatically select an MPAN for you to use in your QTC Run
2. and will tell you how many MPANs remain from the allocated 20.
3. If you wish, you can choose to use any other remaining MPAN by selecting from the drop-down list

4. having selected your MPAN, you can initiate the QTC by clicking on the Start Run button
5. clicking on the Cancel button returns you to the previous screen
6. you can navigate to the Test Set screen using the link on the left-hand side of the screen
7. you can navigate to the QP Dashboard screen using the link on the left-hand side of the screen
8. You can also navigate using the bread crumb trail

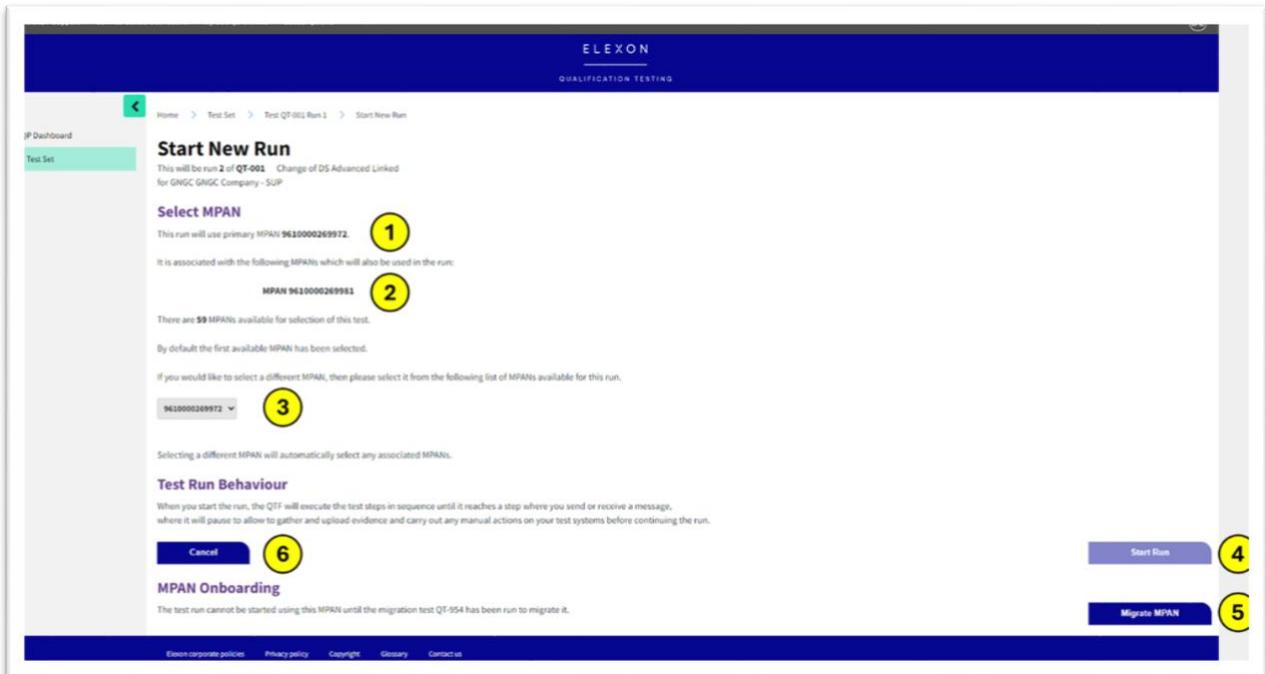


Figure 12: Start New Run screen (MPAN Set)



Most QTCs require a single MPAN, however, some require two or, possibly, three MPANs (for example, QTCs involving Import and Export MPANs or Primary and Secondary MPANs). If more than one MPAN is required, you will need to select an MPAN Set from a list of MPAN Sets, however, this only involves selecting the principal MPAN (Primary, Consumption) as the QTF selects the associated MPANs.

The Start New Run screen for a QTC involving an MPAN Set [Figure 12] is like that for initiating a single MPAN QTC [Figure 11].

1. By selecting a primary MPAN
2. you are also selecting its sibling MPAN which is automatically allocated by the QTF.
3. as with QTCs involving a single MPAN, you are free to choose from the remaining available primary MPANs by using the drop-down list. If you elect to select a different primary MPAN, the QTF will automatically select its accompanying sibling MPAN.
4. you can initiate the QTC by clicking on the Start Run button

5. If the MPAN Set has yet to be migrated, the Start Run button will be disabled and the Migrate MPAN button will be enabled to allow you to migrate the MPAN Set
6. Alternatively, you can click on the Cancel button to return you to the Test screen

8.3 Migrating an MPAN

If the MPAN or MPAN Set that has been selected requires migration to MHHS, the Start Run button [Figure 12, No.4] will be disabled and the Migrate MPAN button [Figure 12, No.5] will be enabled. Clicking on the Migrate MPAN button will initiate the appropriate Onboarding QTC for migrating the selected MPAN or MPAN Set to MHHS so that it is available for running the chosen QTC.



The Onboarding QTCs used to migrate MPANs to MHHS for use in Qualification Testing do not form part of Qualification Testing and are not assessed. Although based on end-to-end migration business processes, they only comprise those steps essential for seeding the DIP (populating its MPAN lookup table) and the QTF (registering the appropriate Supplier simulator and/or appointing the necessary Agent simulators). Successful completion of these Onboarding QTCs is, however, an essential prerequisite to using the MPAN/MPAN Set in the associated assessed QTC.

Having successfully completed the appropriate Onboarding QTF, thus migrating the selected MPAN/MPAN Set to MHHS, you will be returned to the Start New MPAN screen in which the migrated MPAN/MPAN Set is already selected ready for initiating the associated Qualification QTC.

9 The Evidence screens

9.1 Introduction

For all QP QTSs where the QP receives a message, you are required to provide evidence of successful completion.

The QTF automatically collects evidence during a QTC Run. It retains a copy of every message generated or received by its simulators and, in the case, of messages generated, a copy of the acknowledgement received from the network (i.e. DIP or DTN).

- You can view QTF evidence but are not permitted to delete it.
- You can load as much or little QP evidence as you think is necessary to satisfy the Assessors and are able to delete and add evidence at any time up until submitting the QTC Set for Assessment.

9.2 The Upload QP Evidence screen

QP evidence is uploaded from the Upload QP Evidence screen which you can access by clicking on the QTC ID of a QTC in the Test screen. This will take you to the Upload QP Evidence screen [Figure 13].

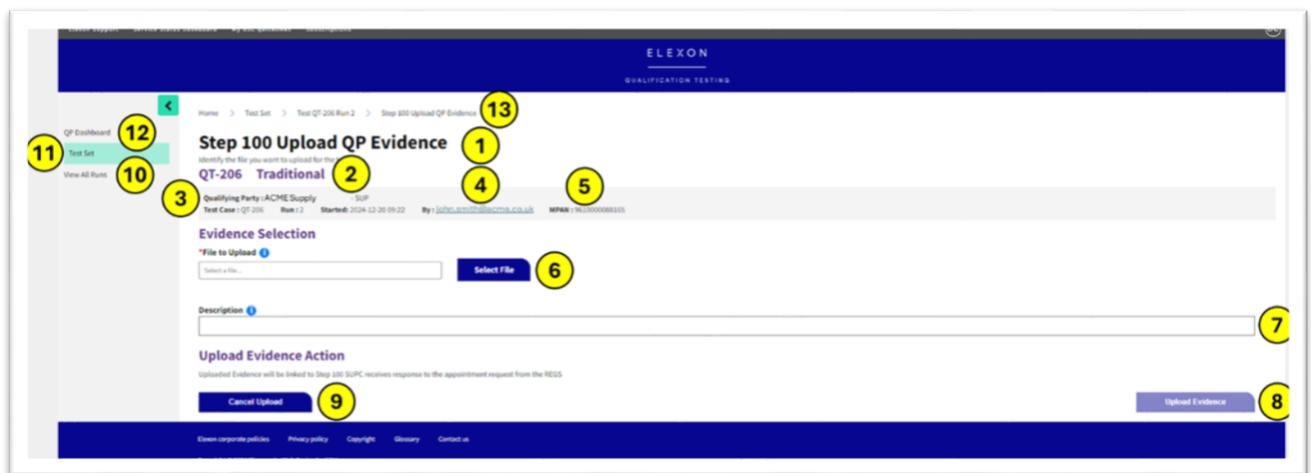


Figure 13: Upload QP Evidence screen

The QP Evidence screen shows:

1. QTS for which evidence is to be uploaded
2. QTC to which the QTS belongs
3. MPID/Market Role
4. QTC ID, date/time of the QTC Run and the individual responsible for initiating the QTC Run
5. the principal MPAN being used for the QTC Run
6. to select a file which you want to upload as evidence, click on the Select File button. You can upload PDF, TXT, JPG or PNG files.
7. add an optional description of the evidence file
8. the Upload Evidence button
9. cancel the evidence upload by clicking on the Cancel button

10. navigate to the View All Runs screen
11. navigate to the Test Set screen
12. navigate to the QP Dashboard screen
13. bread crumb trail



For QTCs that use an MPAN Set (i.e. multiple MPANs), only the principal MPAN from the set is shown (e.g. Primary).



You can upload PDF, TXT, JPG or PNG files.

9.3 The Review QP Evidence screen

Having previously uploaded one or more evidence files against a QTS, you can view and delete these by clicking on the QTS ID of a QTC in the Test screen (see section 7) of the QP QTS in question. This will display the Review QP Evidence screen [Figure 14].

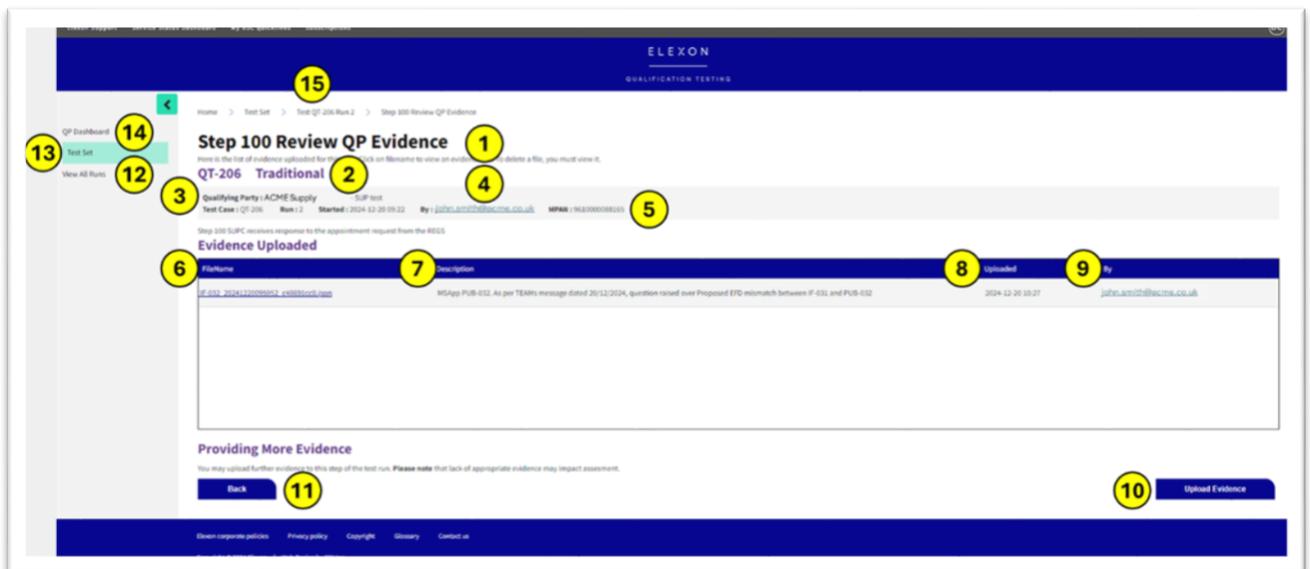


Figure 14: Review QP Evidence screen

The View QTF Evidence screen shows:

1. the QTS for which evidence is to be uploaded.
2. the QTC to which the QTS belongs.
3. your MPID/Market Role.
4. the QTC ID, date/time of the QTC Run and the individual responsible for initiating the QTC Run.
5. the principal MPAN being used for the QTC Run.
6. a list of the evidence files that have been uploaded against the QTS/the filename of the evidence file

For each evidence file that has been uploaded, the View QTF Evidence screen shows:

7. a description of the evidence file provided by the QTF.
8. the date and time of the upload.
9. the QTF simulator responsible for the upload
10. Back button
11. navigate to the View All Runs screen
12. navigate to the Test Set screen
13. navigate to the QP Dashboard screen
14. bread crumb trail

9.5 The Evidence Item screen

The Evidence Item screen allows you to view evidence files that have been uploaded against QTSs, either manually by a QP or automatically by the QTF.

- In the case of evidence files loaded by a QP, the Evidence Item screen is accessed by clicking on an evidence file displayed in the Review QP Evidence screen
- In the case of evidence files uploaded automatically by the QTF, the Evidence Item screen is accessed by clicking on an evidence file displayed in the View QTF Evidence screen

10 The Test Run Log screen

10.1 Tour of the screen

For each QTC Run, the QTF maintains a Test Run Log that contains a comprehensive audit log of actions taken whilst running the QTC. Test Run Logs are useful as:

- evidence of a successful QTC Run.
- monitoring progress of a QTC Run that is in progress.
- triaging a failed QTC Run.
- attaching as evidence to an ADO defect if the QTC Run requires a defect to be raised in ADO.

Test Run Logs can be viewed at any time during or following a QTC Run.



Note that, whilst you can open a Test Run Log during a QTC Run, the Test Run Log screen provides a snapshot of the Test Run Log at the time the Test Run Log was opened. It does not update once open. To continue to monitor progress of a QTC Run, it is necessary to close and re-open the Test Run Log screen.

The Test Run Log is accessed by clicking on the hyperlink in the Test screen (see section 7). This displays the Test Run Log screen [Figure 17]. The yellow numbers indicate portions of the screen described below.

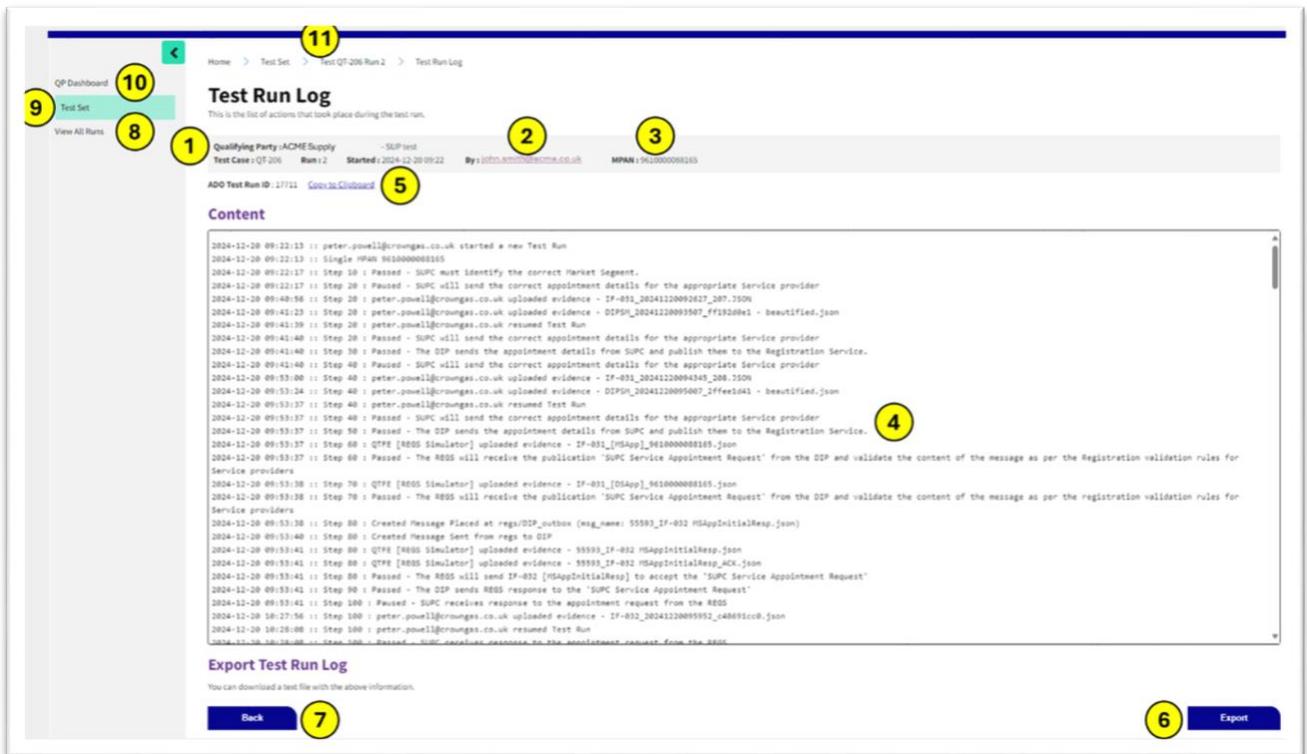


Figure 17: Test Run Log screen

The Test Run Log screen shows the contents of the Test Run Log which comprises:

1. your MPID/Market Role.
2. the QTC ID, date/time of the QTC Run and the individual responsible for initiating the QTC Run.
3. the principal MPAN being used for the QTC Run.
4. a timestamped, chronological list of actions that took place during execution of the QTC Run.
5. copy to Clipboard - copies the ADO Project ID to enable you to find the appropriate project in ADO against which the defect should be raised
6. export button – this allows you to export a txt file to your local directory
7. back button – this allows you to navigate back to the Test screen
8. navigate to View All Runs screen
9. navigate to Test Set screen
10. navigate to QP Dashboard
11. breadcrumb trail



All evidence uploaded to the QTF, whether by QPs or the QTF itself, is automatically stored in ADO. However, since the evidence is also retained in the QTF, you shouldn't have any need to access evidence directly from ADO.

11 The Message Check screen

11.1 Introduction

The QTF automatically checks elements of messages it receives from QP systems during a QTC Run. These checks occur as part of QTF QTSs in which a QTF simulator receives a QP system-generated message. The QTF compares elements of the received message with the corresponding contents of an expected results message.

- If the received and expected elements match, the QTF passes the QTF QTS and the QTC Run continues.
- If the received and expected elements differ, the QTF fails the QTF QTS and the QTC Run is halted with a QTC Status of “Failed”.



Note that not all elements within the received message are checked against expected results; date timestamps being an obvious example. Only elements that are of interest to the Code Bodies and the DIP Manager are checked.

You can view the outcome of the comparison, regardless of whether the QTF QTS passes or fails, by clicking on the QTS ID hyperlink in the Test screen once the comparison has been completed. This will display the Message Check screen [Figure 18].

11.2 Tour of the screen

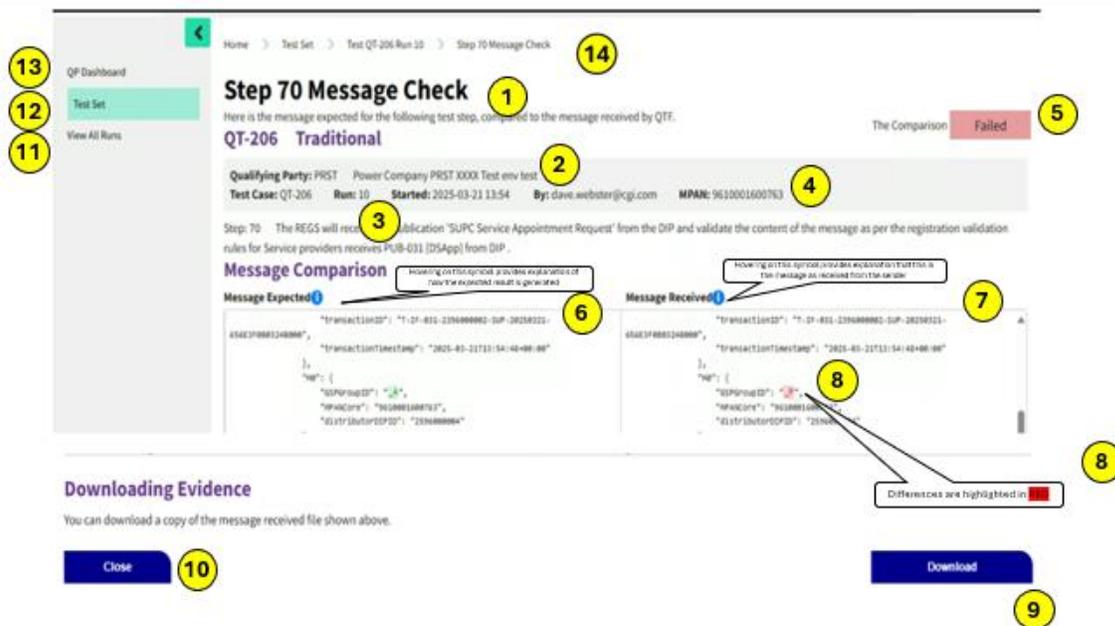


Figure 18: The Message Check screen

Figure 18 shows the Message Check screen that compares data flows received from QP systems with those expected by the QTF. The yellow numbers indicate portions of the screen described below.

The Message Check screen shows:

1. the QTF QTS for which prompted the message check.
2. your MPID/Market Role.
3. the QTC ID, date/time of the QTC Run and the individual responsible for initiating the QTC Run.
4. the principal MPAN being used for the QTC Run.
5. the status of the comparison (either “Passed” or “Failed”).
6. the expected message contents.
7. received message contents.
8. any discrepancies between the expected and received contents.
9. download button – download the received document as a text file
10. close button – return to the Test Screen
11. navigate to View all Runs screen
12. navigate to Test Set Screen
13. navigate to QP Dashboard screen
14. crumb trail

11.3 Order of key-value pairs in JSON message comparison

JSON objects are collections of key-value pairs that do not have a defined order. This means that the arrangement of properties within a JSON object does not impact its validity according to a JSON Schema. The JSON Schema specification explicitly states that objects are unordered, so the sequence of properties is not important.

Different Market Participants may create messages in different ways; it would be wrong to assume that something that is not enforced by the schema would be guaranteed. Therefore, blocks and data items with the JSON messages are ordered alphabetically to aid comparison. This may result in the JSON message being ordered differently to that, that was sent.

12 The View All Runs screen

12.1 Introduction

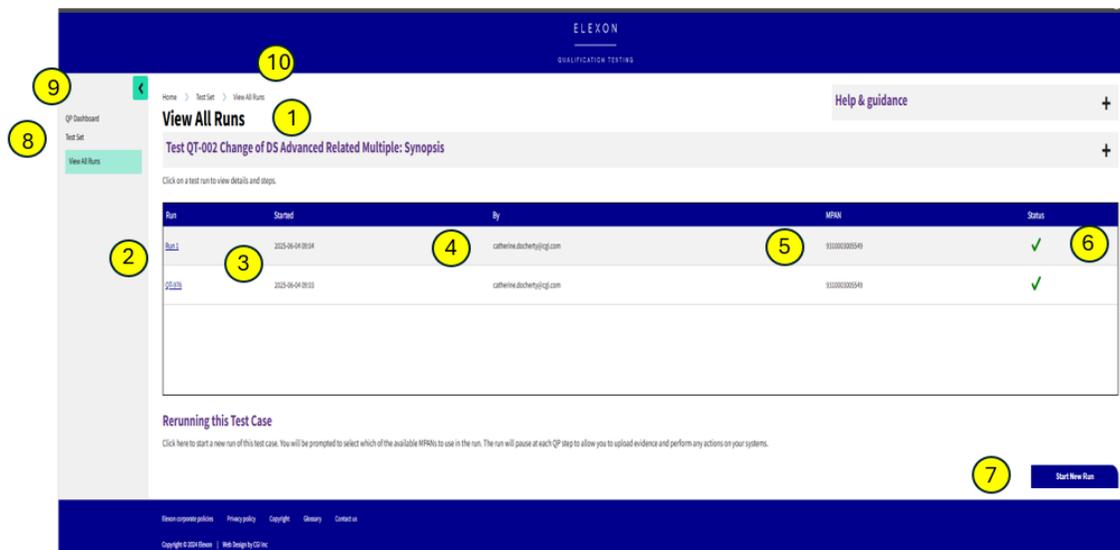
You are free to run a QTC as many times as you need/want so long as you have unused MPANs remaining. The QTF stores details and evidence for each QTC Run performed.



By default, you are allocated 20 MPANs/MPAN Sets per QTC to allow for multiple runs. If you find you need more than this, contact the Non-SIT Supplier and Agent Team.

You can view details of previous QTC Runs by clicking on the View All Runs hyperlink in the Test screen (see section 7). This will take you to the View All Runs screen [Figure 19].

12.2 Tour of the screen



Run	Started	By	MPAN	Status
Run 1	2023-04-04 08:04	catherine.docherty@cgi.com	111000000540	✓
PCS 03	2023-04-04 08:03	catherine.docherty@cgi.com	111000000540	✓

Figure 19: The View All Runs screen

- Figure 19 shows the View All Runs screen which displays a chronological list of all previous QTC Runs for the selected QTC (oldest first) as well as Onboarding QTC Runs for this QTC. For each of the QTC Runs, the yellow numbers indicate portions of the screen described below.

The View All Runs screen shows:

- the QTC that has been run.
- the QTC Run number, and any Onboarding run details will be found here
- the date and time at which the QTC Run was started.

4. the QTF User responsible for initiating the QTC Run.
5. the principal MPAN being used for the QTC Run.
6. the status of the QTC Run.
7. start new run button
8. navigate to Test Set screen
9. navigate to Dashboard screen
10. breadcrumb trail



When submitting a QTC Set for Assessment, the QTC Status of the last QTC Run is the one that is considered by the Assessment team. If you re-run a previously passed QTC, make sure that the final QTC Run has a QTC Status of Passed.

13 Assessment

13.1 Introduction

Once you have completed successful QTC Runs for all the QTCs in your QTC Set and uploaded the evidence for those QP QTSs which require QP evidence, you can submit your QTC Set for Assessment. This is done from the QP Dashboard screen (see section 4) by clicking on the Submit button.



The Submit button is only enabled once all the QTCs within your QTC Set have a QTC Status of Passed.



When submitting a QTC Set for Assessment, the QTC Status of the last QTC Run is the one that is considered by the Assessment team. If you re-run a previously passed TC, make sure that the final QTC Run has a QTC Status of Passed.



Once you have submitted your QTC Set, you will not be able to re-run any QTCs or upload/delete evidence. Only submit your QTC Set when you are confident that you have uploaded all required evidence.



If you do, by accident, submit your QTC Set for assessment prior to completing the evidence load, contact the Non-SIT Supplier & Agent Assessment Team who will be able to reverse the submission for you.

The Non-SIT Supplier and Agent Assessment Team will examine the submitted QTC Set and determine whether it constitutes evidence of successful QT completion.

During the Assessment, you will have read-only access to the QTF to monitor Assessment.

The screenshot shows the 'Test Set' page in the ELEXON Qualification Testing system. The page is titled 'Test Set' and provides a summary of the assessment status. It includes a search bar for finding test cases and a table listing the test cases in the set. The table has columns for Case, Description, Type, Run, Started, and Status. The 'Run' column shows the number of runs and their status (pass, fail, or insufficient evidence). The 'Status' column shows the overall assessment result (pass or fail). An 'Export' button is located at the bottom right of the table.

Case	Description	Type	Run	Started	Status
QT-093	ISD - Publish Whole Dataset	Functional	1 2	2025-06-09 14:47	
QT-505	MSS DIP Smoke Test	Functional	1 3	2025-06-09 11:36	
QT-506	MSS DTN Smoke Test	Functional	1 4	2025-06-09 14:48	

Figure 20: Monitoring the Assessment

The Non-SIT S&A QT Testing Team will update the findings from their Assessment in the QTF as the Assessment progresses, giving you the ability to monitor the Assessment in real time. Accessing the Test Set screen for your MPID/Market Role will provide you with a summary of the current state of Assessment and allow you to see QTCs that have been assessed and:

1. Test Set
2. has been deemed to pass assessment.
3. has been deemed to fail assessment.
4. been deemed to have insufficient or incorrect evidence to warrant a pass.
5. Export button – you can report the Assessment status of the QTC Set at any time by clicking on the Export All button in support of your internal reporting.