



# TIP Test Selection Engine User Guide

17 February 2015

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# Chapter 1 Introduction to TIP Test Selection Engine

*This section provides an introduction to the TIP Test Selection Engine (TSE), what it is, how to install it, and when it is used.*

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## Overview

This guide is intended to help acquirers using the TIP Test Selection Engine (TSE) when running a MasterCard Terminal Integration Process (M-TIP) test session. This guide complements the *M-TIP Process Guide* by describing TSE key functions and how to access them.

MasterCard provides this document for acquirers and their authorized agents. Specifically, acquirer staff performing M-TIP should find this document useful.

## What is the TIP Test Selection Engine

M-TIP is a test process that assesses whether a given Acquirer Deployment<sup>1</sup> will not damage MasterCard operations or brand reputation. M-TIP focuses on conformance against important requirements that directly affect acceptance.

The TIP Test Selection Engine (TSE) is a key tool supporting M-TIP. It allows acquirers to generate the M-TIP test plan applicable to a particular Acquirer Deployment.

Once the test plan has been created, M-TIP testing consists in running test cases from the test plan, using an M-TIP qualified test tool. M-TIP qualified test tools are provided as either a set of physical cards or a card emulation tool. M-TIP qualified test tools are listed in *M/Chip Qualified Test Tools*.

M-TIP requires that the test cases results—made of card/terminal interactions logs and acquirer host network messages logs—be validated by an independent, accredited TIP service provider. TSE supports that task by:

- Allowing the acquirer to record a pass or fail status for each test case run, together with any useful observations or comments
- Attaching log files corresponding to each test case
- Creating a data package containing all information needed by the TIP service provider for validation. That data package can conveniently be sent by email
- Displaying and processing the feedback from the TIP service provider in case some test cases are unsuccessful.

Several vendors offer enhanced test tools that automate large parts of the testing process by parsing log files and determining whether test cases pass or fail. Such tools may interact with TSE. Acquirer may contact their tool vendor for more information about how their tool integrates with TSE.

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1. Refer to the *M-TIP Process Guide* for a detailed definition of 'Acquirer Deployment'.

## System Requirements

TSE is a MasterCard developed application software, packaged as an executable file and available from MasterCard Connect. TSE requires a computer running a Windows® operating system (XP or newer), with the system privileges required to download and run executable (.exe) files.

## Installation and Upgrade of TSE and TIP Test Set

M-TIP must always be performed with the latest version available of TSE software and TIP Test Set. Before initiating a new M-TIP test session, it is best practice to check if new versions are available on MasterCard Connect. The following sections detail the steps necessary to install and upgrade TSE and TIP Test Set.

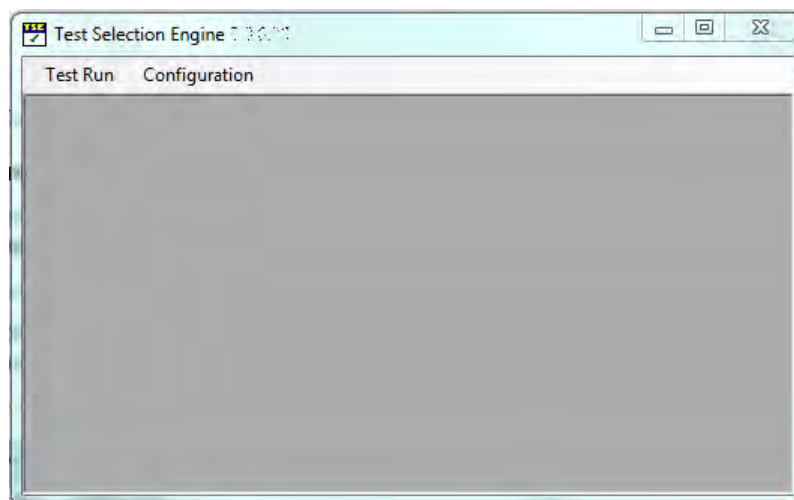
### Installing TSE

Use the following procedure to install the TIP Test Selection Engine (TSE).

#### Procedure

1. Download the TSE software package from **MasterCard Connect> Publications> Chip Information Center** and save it on a local drive.
2. Unzip the compressed file into a TSE folder on the local drive.
3. Run the **setup.exe** file to launch the setup script that will create a TSE shortcut in the Windows Start menu and on the desktop.

Once the setup is completed, the TSE window is displayed.



4. To launch TSE, select the TSE shortcut on the desktop or Windows Start menu or double-click the **tse.application** file.

5. To define the TSE working directory, in which all files created by TSE will be stored, select **Configuration> Set Working Directory**. Browse for and select the preferred folder location from the **Browse for Folder** dialog box.

## Installing TIP Test Set

Prior to running any M-TIP session, you must install the latest TIP Test Set. The TIP Test Set contains all information related to test plan generation. Therefore it is of the utmost importance that the most recent TIP Test Set is used. Use the following procedure to install the latest test set.

### NOTE

**M-TIP must always be performed with the latest version available of TSE software and TIP Test Set. Before initiating a new M-TIP test session, it is best practice to check if new versions are available on MasterCard Connect.**

### Procedure

1. Download the latest TIP Test Set package from **MasterCard Connect> Publications> Chip Information Center**.
2. Load the latest version of the TIP Test Set into the TSE, using **Configuration> Update Configuration**. Select the **.tsec** file containing the TIP Test Set.

## Upgrading TSE

Use the following procedure to upgrade the TIP Test Selection Engine software.

### Procedure

1. Download the latest TSE software package from **MasterCard Connect> Publications> Chip Information Center** and save it on a local drive.
2. Unzip the compressed TSE software package into the same TSE folder that contains the previous TSE version.
3. Run **tse.application** to start TSE. The new software version will be detected and a popup window will ask to complete the installation before launching the new TSE software.

### NOTE

**Once the setup is completed, the TSE window is displayed. The TSE version can be checked in the top bar of the TSE window.**

## Upgrading TIP Test Set

To install a new TIP Test Set version, proceed as described in the [Installing TIP Test Set](#) section.

Previous TIP Test Sets remain available in TSE after the new Test Set has been installed. The most recent TIP Test Set is selected by default when creating a new M-TIP session.

## Getting Started with the M-TIP Test Session

Once TSE has been successfully installed and a TIP Test Set has been loaded as detailed in the Installation and Upgrade TSE and TIP Test Set section, running an M-TIP test session consists of the following steps.

Step	Process
1.	Create a new M-TIP test session.
2.	Define acquirer environment and terminal configuration.
3.	Generate test plan.
4.	Execute test plan.
5.	Send test results to M-TIP service provider.
6.	Review service provider Validation Report.

Each of the above steps are detailed in Chapter 2, [Running M-TIP with TSE](#).

## TSE File Extensions

The following proprietary file extensions are used in TSE.

- **tsec**—compressed file containing the Test Set
- **tse**—compressed file containing the M-TIP session acquirer environment, terminal configuration, test results, and the Test Set
- **tsez**—compressed file containing the **.tse** file and any file attachments (like log files) provided by the acquirer
- **tser**—XML Validation Report produced by the M-TIP service provider

These file extensions are outlined in detail in Chapter 2, [Running M-TIP with TSE](#).

## Support

Acquirers should contact their M-TIP service provider for any questions they may have about M-TIP. The list of service providers and their contact details can be found in the *M/Chip Accredited Third Parties and Service Providers* manual.

MasterCard offers support and advice through the chip services management team, [chipservicesmanagement@mastercard.com](mailto:chipservicesmanagement@mastercard.com).

## Related Information

The following documents and resources provide information related to the subjects discussed in this document:

- *M-TIP Process Guide*
- *M/Chip Accredited Third Parties and Service Providers*
- *M/Chip Qualified Test Tools*

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## Chapter 2 Running M-TIP with TSE

*This section describes the various functions and workflow of the TIP Test Selection Engine (TSE).*

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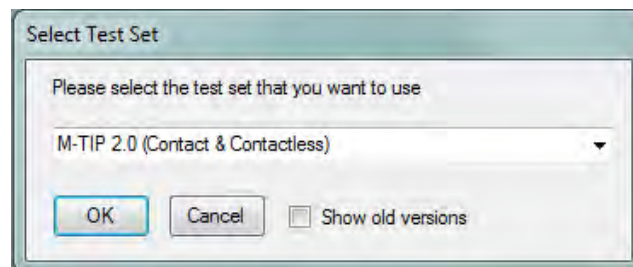
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## Creating a New M-TIP Test Session

Use the following procedure to start a new M-TIP Test Session.

### Procedure

1. To launch TSE, select the TSE shortcut on the desktop or Windows Start Menu or double-click **tse.application**. The TIP Test Selection Engine window is displayed.
2. Start a new M-TIP session, using **Test Run> New**.
3. Within the Select Test Set window, select a **Test Set** (to use for this M-TIP session) from the drop down list and click **OK**.



### NOTE

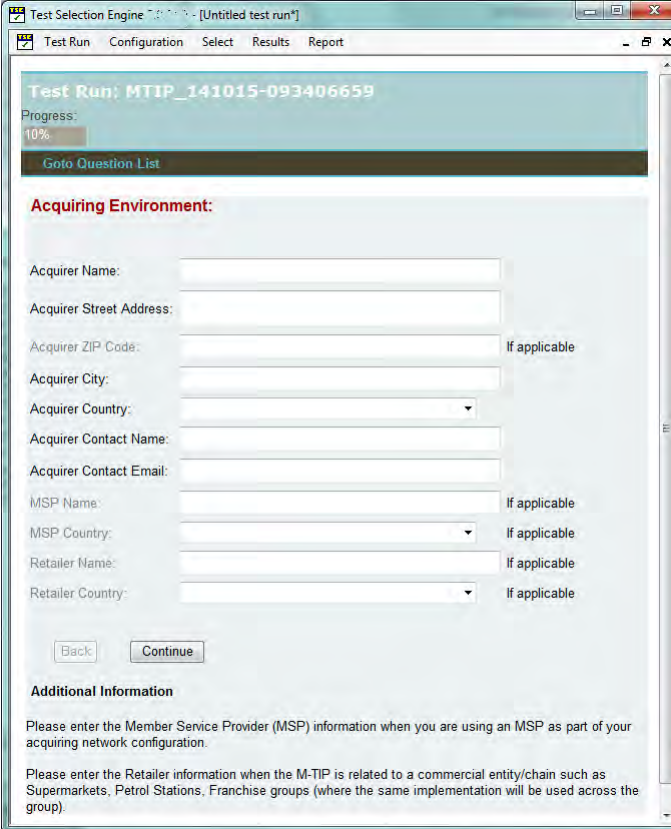
**By default the most recent test set is listed. To view older test set versions, click the Show Old Versions checkbox.**

4. The Questions Form is displayed with the first set of questions that must be answered to provide details about the acquirer environment and the terminal configuration.

## Running M-TIP with TSE

### Creating a New M-TIP Test Session

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The application creates an M-TIP Tracking Number, with the structure “MTIP\_YYMMDD-hhmissmmm”. That test run number is displayed on the top banner.

Example: MTIP\_141015-093406659

- Where 141015 is the date: 15 October 2014
- And 093406659 is the time: 09:34:06 659 milliseconds

A progress bar is displayed in the top banner, showing the progress in acquirer environment and terminal details collection.

Now that an M-TIP session has been initiated, new menu items are displayed in the toolbar. These menu items allow selecting test cases, editing test results and producing various test reports.

5. Save the test run in TSE by selecting **Test Run> Save**. This will create a compressed file named with the TIP Tracking Number and a .tse extension. By default the .tse file will be saved in the acquirer-defined working directory, which is defined using **Configuration> Set Working Directory**.

## Defining Acquirer Environment and Terminal Configuration

The Questions Form is displayed with the first set of questions that must be answered. The questions displayed in black typeface are mandatory, while the questions in grey typeface are optional.

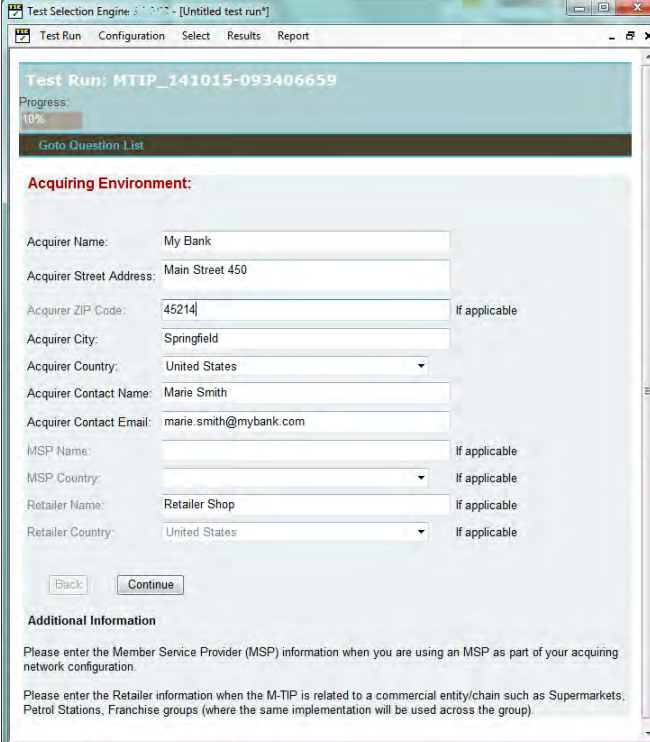
The questions are intended to:

- Provide administrative information about the acquiring environment
- Collect the terminal model and terminal approvals
- Define the terminal interface to test for this M-TIP: Contact or Contactless or both
- Collect the terminal configuration details.

A contextual help can be displayed next to a question or at the bottom of the form.

### Procedure

1. Answer all mandatory questions, then click **Continue**.



The screenshot shows the Test Selection Engine (TSE) interface. The window title is "Test Selection Engine: [Untitled test run]". The menu bar includes "Test Run", "Configuration", "Select", "Results", and "Report". The main content area displays "Test Run: MTIP\_141015-093406659" and a progress indicator at 10%. Below this is a "Goto Question List" button. The "Acquiring Environment" section contains the following fields:

Acquirer Name:	My Bank	
Acquirer Street Address:	Main Street 450	
Acquirer ZIP Code:	45214	If applicable
Acquirer City:	Springfield	
Acquirer Country:	United States	
Acquirer Contact Name:	Marie Smith	
Acquirer Contact Email:	marie.smith@mybank.com	
MSP Name:		If applicable
MSP Country:		If applicable
Retailer Name:	Retailer Shop	If applicable
Retailer Country:	United States	If applicable

At the bottom of the form are "Back" and "Continue" buttons. Below the form is the "Additional Information" section, which contains two paragraphs of text explaining when to enter MSP and Retailer information.

2. Enter information in the available fields until all presented fields have been answered.

## Running M-TIP with TSE

### Defining Acquirer Environment and Terminal Configuration

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Test Selection Engine: 8.1.0.0 - [Untitled test run]

Test Run Configuration Select Results Report

Test Run: MTIP\_141015-093406659

Progress: 22%

Goto Question List

**Terminal Details:**

Terminal Brand:

Terminal Model:

Terminal Supplier Name:

Terminal Supplier Country:

Terminal Input Capability:  EMV Contact  Contactless M/Chip

Deployment Type:  Newly deployed terminal  Already deployed terminal

**Additional Information**

Please indicate if this M-TIP relates to a newly deployed terminal (first occurrence in acquirer network) or to an update of an already deployed terminal.

Answers provided are validated by TSE. Any error encountered is reported on a red background at the top of the **Questions Form**.

Test Selection Engine: 8.1.0.0 - [Untitled test run]

Test Run Configuration Select Results Report

Test Run: MTIP\_141015-093406659

Progress: 98%

Goto Question List

**Error:**  
You must specify an answer for the question: Acquirer Street Address:

**Acquiring Environment:**

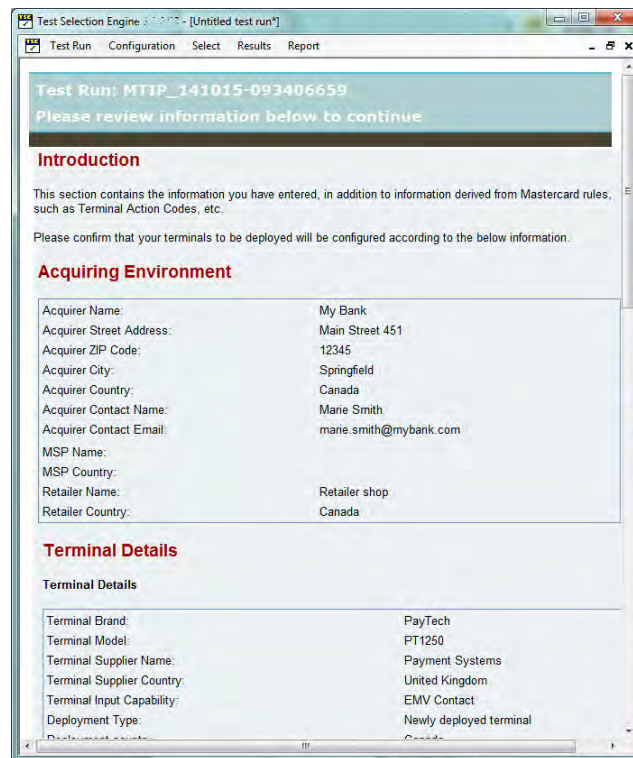
Acquirer Name: My Bank

Acquirer Street Address:

Acquirer ZIP Code: 12345 if applicable

Acquirer City: Springfield

3. Answer all questions until the **Review Information** page is displayed. It summarizes the details of the terminal configuration for which a test plan will be generated.



#### NOTE

Some of the details displayed may result from answers that were not explicitly entered in the previous steps. In order to optimize the user experience and minimize the number of questions to be asked, TSE predefines as much details as possible, based on the M/Chip Requirements. For example, when defining the configuration for a contact ATM, you will never be asked a question about the CVMs supported by your ATM. That is because a contact ATM must only support Online PIN. That information will be shown on the Review Information page. Carefully review the information and ensure that the actual terminal configuration is fully in line with all the details mentioned.

4. Once the review of the answers is completed, click **Continue** to generate the Test Plan. The Test Plan is automatically displayed in the Test List view.
5. Save this M-TIP session in TSE by selecting **Test Run> Save As**.

## Generating a Test Plan

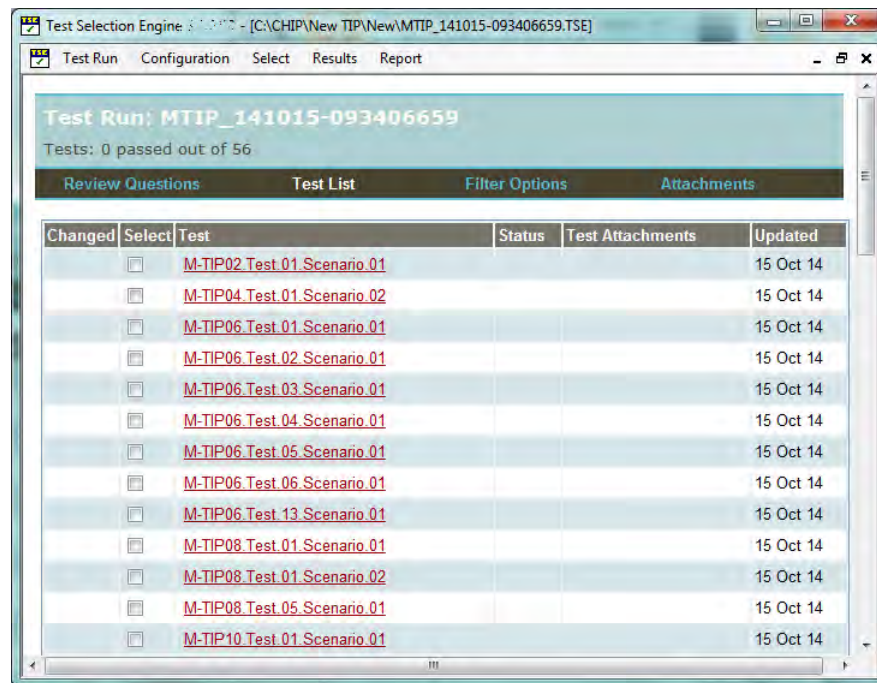
Use the following procedure to generate a Test Plan.

#### Procedure

1. Open the Test Plan in the **Test List** view.

## Running M-TIP with TSE

### Generating a Test Plan



The top banner displays the total number of tests that are part of the Test Plan and the number of tests that have been executed with a 'Pass' status.

The navigation bar now contains 4 elements:

- **Review Questions**—To review and edit the list of questions/answers describing the acquirer environment and terminal configuration under test
- **Test List**—To review or edit the tests in the Test Plan
- **Filter Options**—To review or edit the filtering options that can be used to filter the **Test List** view. See Chapter 3, [Additional TSE Features](#) for more information on filtering options
- **Attachments**—To add or remove a file to the M-TIP test session. For example, terminal Letter of Approval, Waiver, log files related to multiple test cases

#### NOTE

**Updating answers to questions may impact the terminal configuration hence the Test Plan. TSE dynamically adapts the Test Plan to changes in answers. This must not be done if the service provider has already validated the Test Results.**

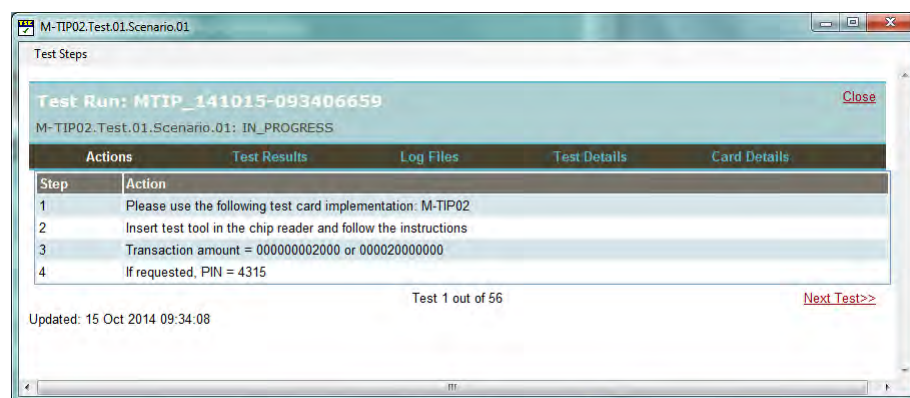
2. Review the information contained in the **Test List** view for each test case:
  - **Changed**—Flag indicating whether the test case has been updated since the last save
  - **Select**—Checkbox permitting selection of one or more test cases. This feature can, for example, be used to export only test results for the selected test cases, or to clear results of the selected test cases
  - **Test**—Name and number of the test case
  - **Status**—Current status of the test case (Passed, Failed, In Progress)
  - **Test Attachments**—Name of the files attached to specific test case. This is typically the log file of the test execution, or a waiver related to the test case
  - **Updated**—Modification date of the test case
3. Select **Test Run > Save As** to save this M-TIP session.

## Running a Test Plan

Use the following procedure to perform a test in the TSE.

### Procedure

1. Open the Test Plan in the **Test List** view.
2. Click a test **Name**. The **Test Case** window displays.



The current test case name and status are displayed on the top banner. Click **Close** to save and close the Test Case window.

Located at the bottom of the window are navigation links to go to the **Next Test** or **Previous Test** (when applicable).

## Running M-TIP with TSE

### Running a Test Plan

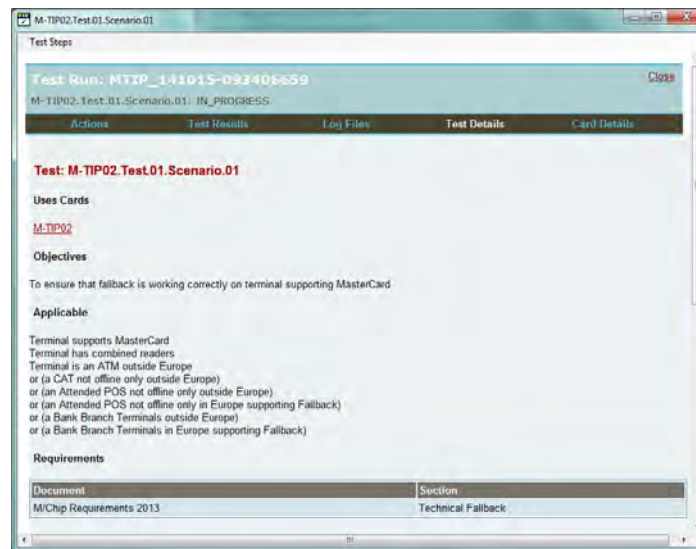
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- Review the information provided in the **Test Case** window by clicking the corresponding tab.
  - Actions**—list of actions to execute for the test case
  - Test Results**—list of all pass criteria, in which results of the test run are recorded, for each pass criteria
  - Log Files**—list of log files attached to a test case
  - Test Details**—description of the test case objectives and applicability
  - Card Details**—detailed description of the card to use in the test case

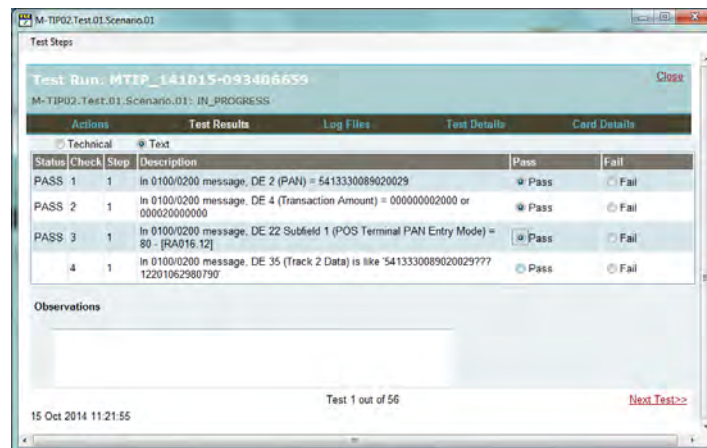
#### NOTE

The descriptions of the test cases are now entirely integrated in TSE and replace the previously published M-TIP Test Case User Guides. An exhaustive list of all existing test cases is available through Report> View Test Reference.

- After checking the actions required, open the **Test Details** to review the test case objectives and applicability criteria.



- Check the card details in the **Card Details** window to ensure the correct M-TIP test card is used for the test.
- Start the test with the appropriate M-TIP test card and register the status of each pass criteria in the **Test Results** window.

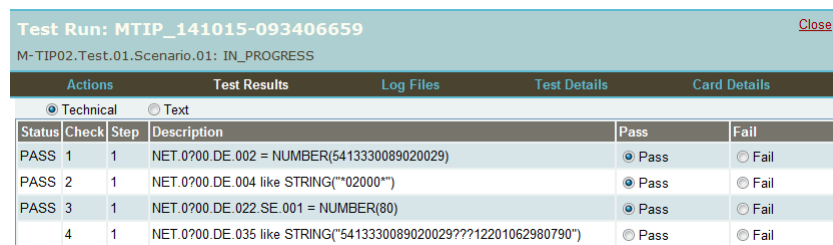


- Select the appropriate status as per the result of the transaction or per the information found in the log file.

#### NOTE

The **Test Results** window contains a list of pass criteria that is made of several **Checks**, each check may be composed of one or more **Steps**. Each check step has its own status: **Pass** or **Fail**.

- Click **Technical** to display the pass criteria in a technical syntax. Pass criteria is displayed by default in Text format. The technical syntax is designed for M-TIP test tools that offer an automatic pass criteria validation while parsing the log file. Acquirers should check if this option is supported with the tool vendor.



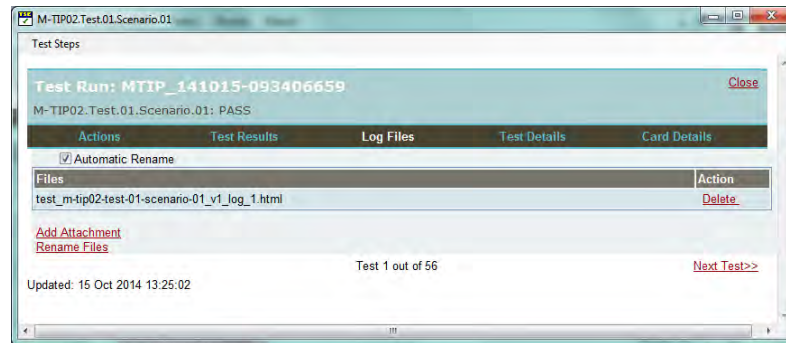
- Provide any additional required information in the **Observations** text area located below the pass criteria table.
- Attach the corresponding log files to the test case under the Log Files tab. Click **Add Attachment**.

The **Automatic Rename** option allows TSE to automatically rename the log file with the test name and version. The file may also be renamed using the **Rename Files** option after it's attached.

## Running M-TIP with TSE

### Sending Test Results to M-TIP Service Provider

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#### NOTE

The test log can be attached to a specific test case or to the M-TIP session (using "Attachments" in the main M-TIP session window.)

11. Provide reference and details of a waiver in the **Observations** text area of the test case in the **Test Results** window if a test case cannot be successfully completed or a specific functionality is not supported. Attach the file to the test case or the M-TIP session as a whole.
12. Click **Next Test** to proceed to the next test case once a test case is complete.
13. Select **Test Run> Save As** to save the M-TIP session and update the .tse file.

## Sending Test Results to M-TIP Service Provider

Once all test cases from the Test List have been executed, and all required log files have been attached to the M-TIP session, use the following procedure to prepare the package for the M-TIP service provider.

#### Procedure

1. Select **Test Run> Create Package** to export all the test results in a compressed file named with the TIP Tracking Number, a time stamp of the package generation time, and a .tsez extension.

For example, MTIP\_141015-093406659\_141018-133003.tsez where:

- MTIP\_141015-093406659 is the TIP Tracking Number
  - 141018-133003 is the date and time at which the package was generated (18 October 2014 at 13:30:03)
  - .tsez is the compressed file extension
2. Send the .tsez file to the service provider.

The .tsez package contains:

- The .tse compressed file containing all the details of the M-TIP session: the Test Set, acquirer environment and terminal configuration, and the Test Plan results
- The log files and attachments

## Reviewing Service Provider Validation Report

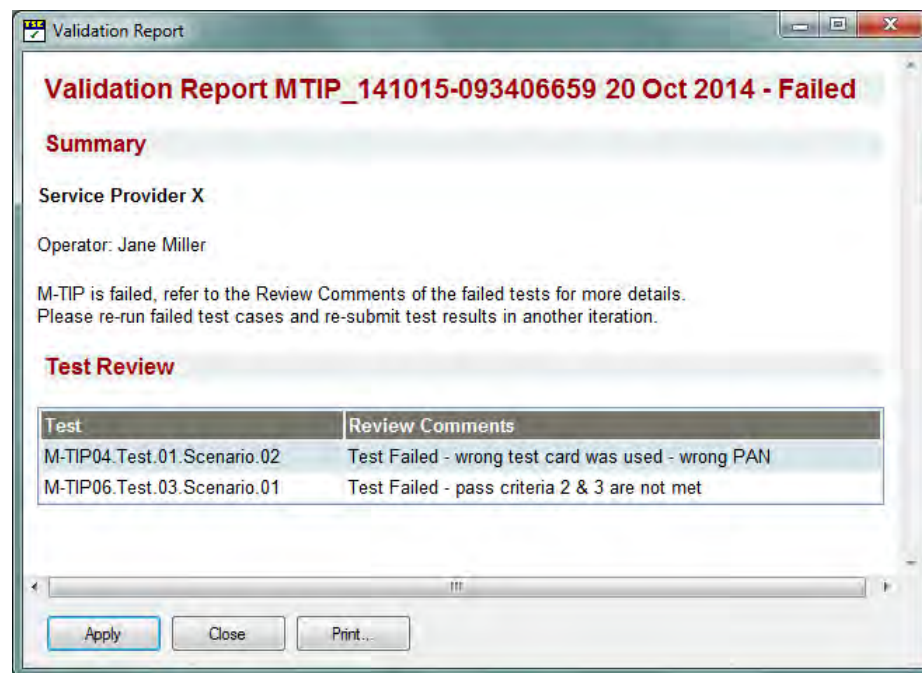
The M-TIP service provider sends feedback of the validation in an XML Validation Report that can be loaded in the TSE. The file has a .tser extension.

### Procedure

1. Start TSE and open the .tse file of the M-TIP test session using **Test Run> Open**.
2. Open the corresponding Validation Report .tser file for this project using **Test Run> Open**.

### NOTE

**The Validation Report (.tser file) can be directly opened in TSE. TSE will automatically retrieve the corresponding .tse file (if it is available in the configured TSE working directory).**



The Validation Report window contains:

- **Title**—M-TIP Tracking Number, the date of the report and the validation status: Passed or Failed
- **Summary**—service provider free comments section
- **Test Review**—optional section listing the tests for which the service provider has made Review Comments
- **Question Review**—optional section listing the questions that the service provider has selected that may need to be reviewed

## Running M-TIP with TSE

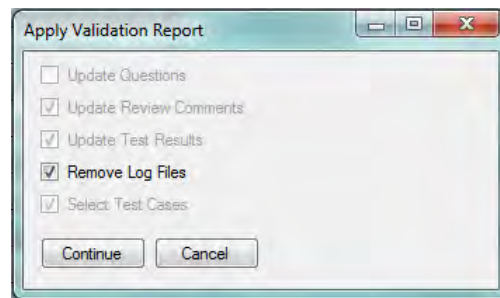
### Reviewing Service Provider Validation Report

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The Test Review table only displays tests that contain Review Comments. Tests for which pass criteria status have been updated without Review Comments are not displayed (the status update will only be visible in the Test List when the Validation Report is applied to the current M-TIP project).

3. Click **Print** to print the report if a paper copy is required.
4. Click **Apply** to apply the changes made by the service provider to the TSE M-TIP test session.

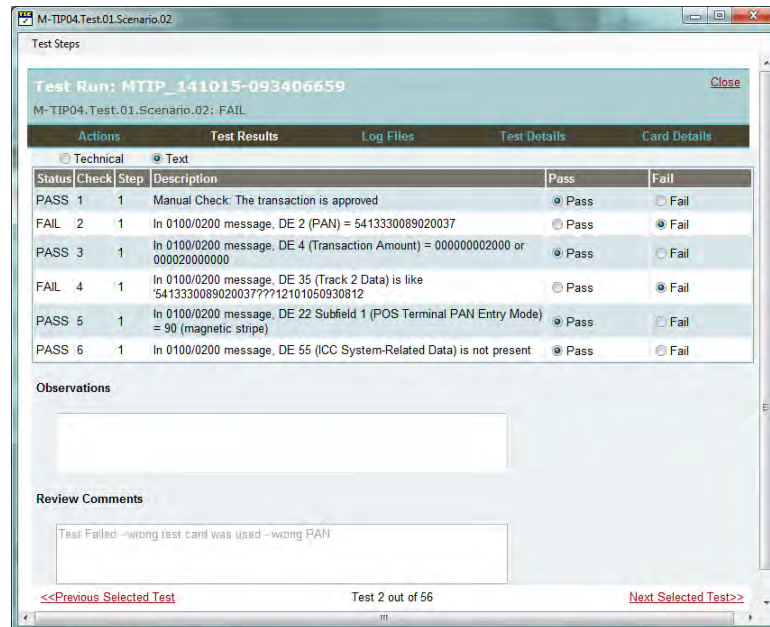
The **Apply Validation Report** window displays.



5. Click **Remove Log Files** to remove the existing log files for the tests that have been updated by the service provider.
6. Click **Continue** to update the .tse project. If the .tse project is not currently open in TSE, TSE will retrieve it, open it, and update it.

The update consists of the following when applicable:

- Answers to questions are updated
  - Review Comments from the service provider are imported
  - Pass criteria status are updated
  - Updated test cases are selected
  - Log files for updated test cases are removed, if the corresponding option is selected
  - Validation Report .tser file is added to the M-TIP session as a global attachment
7. Browse the list of failed tests in the **Test List**. The updated tests will be marked as **Changed** in the Test List.
  8. Review the service provider comments in the **Review Comments** text area in the Test Results tab of the Test Case window.



9. Re-run any test marked Failed in the Test List and attach the corresponding logs to the new test run.
10. Once all required tests are executed, prepare the list of test cases that must be included in the .tsez package. The test cases that have been re-run are identified from the modification date listed in the **Updated** column of the Test List, or from the modification flag displayed in the **Changed** column of the Test List.
11. Click **Select> Select Changed Tests** to select the test cases that are flagged in the **Changed** column in the Test List.
12. Click **Test Run> Create Selected Test Package** to generate the package. In this case, the entire project is exported but only the log files attached to the selected tests are exported.
13. The .tsez file must be sent to the M-TIP service provider.

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## Chapter 3 Additional TSE Features

*This section describes the additional functionality that exists in the TIP Test Selection Engine (TSE).*

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## Filtering Test List

The Filter Options in TSE allow you to define filters that can be applied to the Test List view based on the test case status.

### Applying a Filter

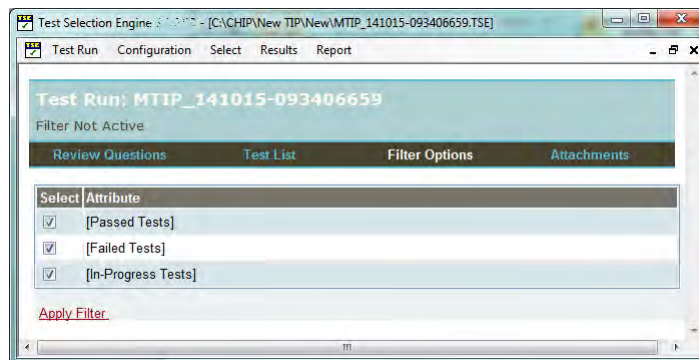
Use the following procedure to define filters.

#### Procedure

1. Open an M-TIP session in TSE that has a Test Plan generated.
2. Click **Filter Options**.

The Filter Options table contains:

- **Select**—Flag indicating whether the attribute is active in the filter
- **Attribute**—Name of the filter attribute



3. Define which attribute will be part of the filter. By default, all attributes are selected. Once the selections are made, click **Apply Filter** to display the filtered Test List.



## Removing a Filter

Use the following procedure to remove a filter.

### Procedure

1. Open an M-TIP session in TSE.
2. Click **Filter Options**.
3. Click **Remove Filter** to refresh the Test List without any filtering applied. The filter is still defined in the Filter Options window for future use.

## Selecting Test Cases

TSE offers different ways to select test cases from the **Test List**.

Test selection allows action only on a subset of tests, for example when:

- Packaging test results
- Clearing test results
- Generating a report

When tests are selected in the Test List, the menu items for the three actions above dynamically adapt to only apply to selected tests.

Test cases can be selected in 3 different ways:

- Select test cases manually, by clicking the relevant check boxes in the **Select** column in the Test List
- Click **Select> Select All Tests** to select all test cases at once
- Click **Select> Select Changed Tests** to select the test cases that are flagged in the **Changed** column in the Test List.

### NOTE

**To clear any selection made, deselect the Select check boxes in the Test List view or click Select> Clear Selection.**

## Changing Markers

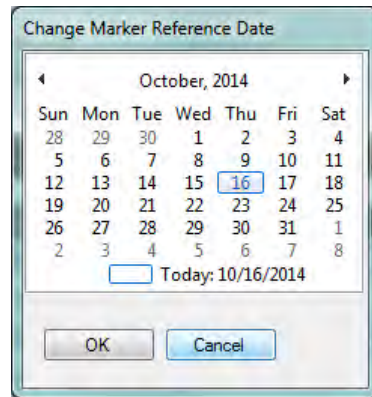
Change markers (represented by an asterisk “\*”) may appear in the **Review Questions** and **Test List** views. They indicate by default that the answer to a question or a test result has been updated since the last time the M-TIP session was saved in the .tse file.

TSE offers the option to set change markers relative to a user-specified date. Use the following procedure to modify the change mark date.

## Procedure

1. Click **Select> Select Marker Reference Date**.

A calendar window displays.



2. Click a date and then click **OK**. All answers to questions and all test results that have a modification date more recent than the newly selected date are flagged as changed.

## NOTE

To clear the change marks, click **Select> Clear Change Markers**. All change flags will be removed from the Review Questions and Test List views.

# About Clearing Test Results

TSE can clear the results of multiple tests cases at a time. This feature resets the status of the pass criteria, and the observations. This feature is most useful when the M-TIP session is created by copying another reference M-TIP, or when several test cases are re-executed due to service provider feedback.

## Clearing Pass Criteria

Use the following procedure to clear pass criteria.

### Procedure

1. Click an applicable option in the **Results** menu. The options available will vary depending on the state of the **Test List**.
  - **Clear All Test Results**—when no test is selected in the **Test List** and no filter is applied on the **Test List**
  - **Clear Selected Test Results**—when tests are selected in the **Test List** and no filter is applied on the **Test List**
  - **Clear Filtered Test Results**—when a filter is applied on the **Test List**

2. Change the setup of the **Test List** by changing the test selection or filtering options if the desired option is not available for selection.

## Clearing Review Comments

Use the following procedure to clear the service provider Review Comments for all tests in the Test List.

### Procedure

1. Click **Results> Clear Review Comments**.

## Creating a Copy

TSE allows you to create a new M-TIP test session from an existing TSE M-TIP test session.

This feature may be used in two cases:

- Acquirers needing to quickly initiate a new M-TIP session for a new terminal or terminal configuration and who are keen avoiding having to redefine the same acquiring environment
- Acquirers needing to run a Fast Track M-TIP based on a previous TSE M-TIP test session. That original M-TIP is referred to as the Reference M-TIP

Use the following procedure to create a copy.

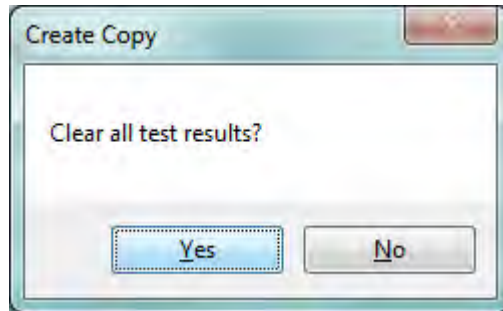
### Procedure

1. Install the latest versions of the TSE and Test Set as described in the [Installation and Upgrade of TSE and TIP Test Set](#) section.
2. In TSE, open the Reference M-TIP .tse file or the .tsez package, using **Test Run> Open**.
3. Click **Select> Create Copy** to start a new M-TIP session.

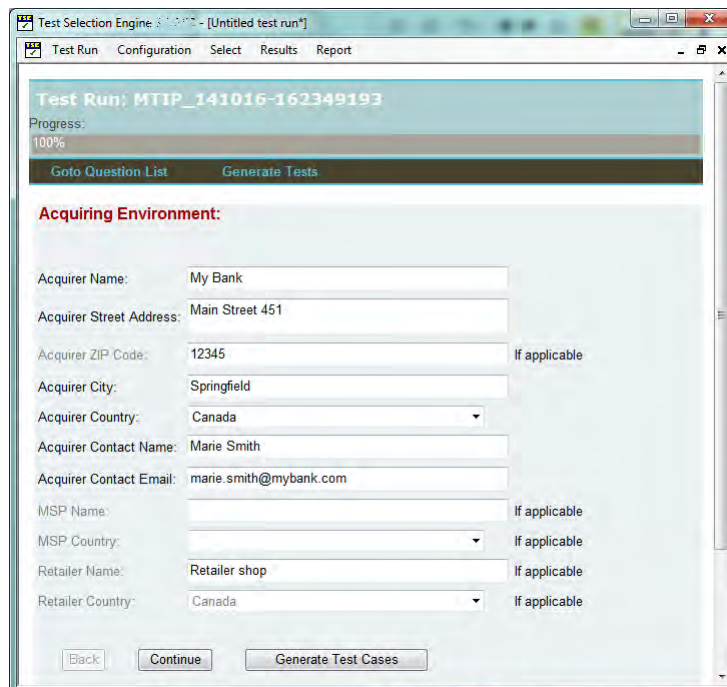
This will:

- Create a new M-TIP session, with a new TIP Tracking Number
- Keep a record of the TIP Tracking Number of the Reference M-TIP
- Copy the answers to all questions from the Reference M-TIP into the new M-TIP session
- Copy the test results, the log files reference and the attachments reference

- Click one of the following in the **Create Copy** dialog box:



- **Yes** to clear test results. This will remove all pass criteria status, and all reference to test log files but will keep the attachments linked to the M-TIP session.
  - **No** to keep the test results of the Reference M-TIP.
- Once the copy is completed, edit the questions in the Question Form as required.



#### NOTE

The test plan will be automatically adapted based on modified answers. Based on the number of changes, the M-TIP session may no longer be considered as a Fast Track M-TIP by the service provider, and all tests part of the test plan may need to be run.

- Browse the **Test List** to check which tests must be run.

Test results are cleared for the tests that must be run due to change of terminal configuration or due to a more recent Test Set.

If the terminal configuration has not changed, only the new tests, or tests that have had a major changes since Reference M-TIP was completed, must be executed.

If the terminal configuration has changed, and these changes are out of the acceptable scope as defined in the 'Fast Track M-TIP Test List' of the TSE Online Help, the acquirer must run all tests.

7. When all required tests are successfully run, generate the export package as for a regular M-TIP session.

## Reports

From the **Report** option, TSE offers different types of report as indicated below.

- **Create (Selected) Test Report**—A test report about the on-going M-TIP session containing:
  - The TIP Tracking Number
  - The version of the Test Set
  - A summary of question answers
  - A summary of test status
  - A detailed report about test cases that are part of the **Test List**

When some test cases are selected in the Test List, the report covers only the selected tests.

- **Test Information**—A test report containing a summary of the terminal configuration for the ongoing M-TIP session
- **Test Reference**—A test report containing a detailed description of all test cases that are part of the Test Set loaded in TSE. It contains all tests from the Test Set, even the ones not applicable to the particular terminal configuration for the ongoing M-TIP session

### NOTE

**Click Print to print the report or Save to save an electronic version of it.**

## Online Help

A short online help is available when an M-TIP test session is open by using **Report> Help**.

The Online Help also contains the Fast Track M-TIP Test List describing the test cases that must be run in Fast Track M-TIP and the existing Fast Track M-TIP use cases.