

I. TEST SCENARIOS

States are strongly encouraged to test their system programming using the CSENet testing support capabilities. States may select all or a combination of six basic test scenarios.

1. Test with the CSENet server
2. Test deck
3. Test with another state
4. Receive maximum length transactions from CSENet
5. Send invalid transactions
6. Loopback testing

States are encouraged to contact the CSENet Service Desk at (800) 258-2736 with questions regarding the test process.

Chart I-1 lists the test scenarios. The Description column of the chart explains the nature of the test. The Suggested Usage column outlines test objectives so states can determine which scenario best meets their needs. The Expected Results column specifies the results generated by each test. Each scenario results in one or more of the following reports:

1. **Validation Report:** This report is located in the state's Incoming Validation Report data set.
2. **Transaction Error Report:** This report is located in the state's Incoming Invalid Transaction Report data set. The Transaction Error Report, commonly referred to as the Error Report, contains a list of error codes and error messages for invalid transactions identified by CSENet. If a Transaction Error Report has been generated, it is delivered to the state in the next processing cycle.
3. **Transaction Report:** This report is located in the state's Incoming Transaction data set. The Transaction Report contains valid transactions from other destination FIPS codes. This file should be submitted to the state system for verification. If a Transaction Report has been generated, it is delivered to the state in the next processing cycle.

CHART I-1: TEST SCENARIOS			
Scenario	Description	Suggested Usage	Expected Results
1	<p>The State CSE System Exchanges Test Transactions with the CSENet Server</p> <p>The state generates a transaction file containing all valid transaction types that the CSE system is capable of sending. (Refer to Appendix B for a listing of valid combinations of Functional-Type, Action and Action-Reason codes.)</p> <p>After generation, the transaction file is placed in the Outgoing Transactions test data set location. As an added precaution, verify that the transaction file is archived to a safe location for use later, if desired.</p>	<p>Use this option if the goal of testing is to test new functionality or to test outgoing transaction processing capabilities.</p>	<p>The state should expect the following:</p> <ul style="list-style-type: none"> • Outgoing data set is set to zero • Validation Report • Transaction Error Report (if applicable)
2	<p>The CSENet Server Generates a Transaction File Containing All Valid Transaction Types</p> <p>This option is also referred to as requesting Test Deck – the application that produces these test results. The state receives a file containing one of each valid transaction generated by CSENet.</p>	<p>Use this option if the goal of testing is to obtain sample standardized data from CSENet or to test incoming transaction processing capability.</p>	<p>The state should expect the following:</p> <ul style="list-style-type: none"> • Transaction Report

CHART I-1: TEST SCENARIOS			
Scenario	Description	Suggested Usage	Expected Results
3	<p>The State CSE System Exchanges Test Transactions With Another State</p> <p>CSENet performs the Receive-from-State process, validates the transactions, forwards all valid transactions to the other state and returns reports to the originator. The initiating state should document sending the file. The receiving state should document receipt of the file and share information among all test members.</p>	Use this option if the goal is to simulate real-world state CSE activity.	<p>The initiating state should expect the following:</p> <ul style="list-style-type: none"> • Outgoing data set is set to zero • Validation Report • Transaction Error Report (if applicable) <p>The receiving state should expect the following if the initiating state sent at least one valid transaction and if the receiving state has elected to receive inbound state-to-state test transactions:</p> <ul style="list-style-type: none"> • Transaction Report
4	<p>The State CSE System Receives One or More Maximum-Length Transactions from CSENet</p> <p>The requesting state receives a transaction file containing a single transaction of maximum length (8481 bytes). The Other-Local-FIPS code is specified as 9100000, a code used only for testing with the CSENet server.</p>	Use this option if the goal is to test maximum length transaction processing capabilities.	<p>The state should expect the following:</p> <ul style="list-style-type: none"> • Transaction Report

CHART I-1: TEST SCENARIOS			
Scenario	Description	Suggested Usage	Expected Results
5	<p>The State Sends Invalid Transactions</p> <p>The state submits invalid transactions to CSENet to generate errors and force the subsequent receipt of a Transaction Error Report. This report contains a descriptive error message for each invalid transaction.</p>	Use this option if the goal is to test the state's error processing capabilities.	<p>The state should expect the following:</p> <ul style="list-style-type: none"> • Outgoing data set is set to zero • Validation Report • Transaction Error Report
6	<p>Loopback Testing</p> <p>The state sets the transaction header's Local-FIPS-State and Other-FIPS-State fields to their own FIPS code before submitting the transaction to CSENet.</p>	Use this option if the goal is to test specific aspects of state programming.	<p>The state should expect the following:</p> <ul style="list-style-type: none"> • Outgoing data set is set to zero • Validation Report • Transaction Error Report (if applicable) • Transaction Report (if applicable)