

## **N. TEST SCENARIOS**

States are strongly encouraged to test their system programming using the CSENet 2000 test support capabilities. States may select all or a combination of six basic test scenarios. States are encouraged to contact the CSENet Service Desk with questions regarding the test process.

Chart N-1 beginning on the next page 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 produces different combinations of the following six results:

1. **Outgoing Test Data Set:** The state's Outgoing Transaction data set is zero length, because the CSENet Application Suite writes an empty file to this location after the Receive-from-State process is complete.
2. **Interface Report:** This report is located in the state's Incoming Interface Reports data set and contains information concerning the file transfers to and from the state's CSE system.
3. **Interface Log:** This report is located in the state's Incoming Interface Logs data set and contains detailed, unformatted information concerning the network connection and file transfers to and from the state's system.
4. **Validation Report:** This report is located in the state's Incoming Validation Report data set. The Validation Report corresponds to the newly generated Transaction Report that is available the next time CSENet connects to the state's system.
5. **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 exists, it is sent the next time CSENet connects to the state's system.
6. **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 exists, it is sent the next time CSENet connects to the state's system.

<b>CHART N-1: TEST SCENARIOS</b>			
<b>Scenario</b>	<b>Description</b>	<b>Suggested Usage</b>	<b>Expected Results</b>
1	<p><b>The State CSE System Exchanges Test Transactions with the OCSE Server</b></p> <p><b>Description:</b> 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"> <li>• Outgoing data set is set to zero,</li> <li>• Interface Report,</li> <li>• Interface Log,</li> <li>• Validation Report, and</li> <li>• Transaction Error Report (if applicable).</li> </ul>
2	<p><b>The OCSE Server Generates a Transaction File Containing All Valid Transaction Types</b></p> <p><b>Description:</b> This testing 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"> <li>• Interface Report,</li> <li>• Interface Log, and</li> <li>• Transaction Report.</li> </ul>

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3	<p><b>The State CSE System Exchanges Test Transactions With Another State</b></p> <p><b>Description:</b> 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>	<p>Use this option if the goal of testing is to simulate real-world state CSE activity.</p>	<p>The initiating state should expect the following:</p> <ul style="list-style-type: none"> <li>• Outgoing data set is set to zero,</li> <li>• Interface Report,</li> <li>• Interface Log,</li> <li>• Validation Report, and</li> <li>• Transaction Error Report (if applicable).</li> </ul> <p>The receiving state should expect the following if the initiating state sent at least one valid transaction:</p> <ul style="list-style-type: none"> <li>• Interface Report,</li> <li>• Interface Log, and</li> <li>• Transaction Report.</li> </ul>
4	<p><b>The State CSE System Receives One or More Maximum-Length Transactions from CSENet</b></p> <p><b>Description:</b> 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>	<p>Use this option if the goal of testing is to test maximum length transaction processing capabilities.</p>	<p>The state should expect the following:</p> <ul style="list-style-type: none"> <li>• Interface Report,</li> <li>• Interface Log, and</li> <li>• Transaction Report.</li> </ul>

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5	<p><b>The State Sends Invalid Transactions</b></p> <p><b>Description:</b> 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>	<p>Use this option if the goal of testing is to test the state's error processing capabilities.</p>	<p>The state should expect the following:</p> <ul style="list-style-type: none"> <li>• Outgoing data set is set to zero,</li> <li>• Interface Report,</li> <li>• Interface Log,</li> <li>• Validation Report, and</li> <li>• Transaction Error Report.</li> </ul>
6	<p><b>Loopback Testing</b></p> <p><b>Description:</b> The state sets the transaction Header's Local-FIPS-State and Other-FIPS-State fields to their FIPS code before submitting the transaction to CSENet.</p>	<p>Use this option if the goal of testing is to test specific aspects of state programming.</p>	<p>The state should expect the following:</p> <ul style="list-style-type: none"> <li>• Outgoing data set is set to zero,</li> <li>• Interface Report,</li> <li>• Interface Log,</li> <li>• Validation Report,</li> <li>• Transaction Error Report (if applicable), and</li> <li>• Transaction Report (if applicable).</li> </ul>