LSR New Entrant Testing

In this document:

Application to Application Interface Testing 2
Testing in CLEC Test Environment 3
Definitions 4
Development of Test Plan 5
Testing Account Establishment 6
New Entrant Testing Process 6
Sample PON Tracking Spreadsheet 7
Change Log 8
Application-to-Application Interface Testing

Frontier provides a separate CLEC Test Environment for the testing of application-to-application interfaces for pre-order and order. There are two types of testing: new release testing and new entrant testing. New release testing provides the opportunity to test the code associated with the release. New entrant testing allows Telecommunications Companies (TCs) to test their entry into new products or geographic areas. It also allows TCs currently in production who need to perform regression testing, due to changes within their own applications, to notify the FTR test coordinator to create and implement a test plan in the CLEC Test Environment.

To request application-to-application interface testing, please contact Frontier’s CLEC Test team to schedule a test window.

Please include the following information in an email and send to: FTRCarrierCertification@ftr.com

Indicate one of the following: CLEC Testing / Test Deck / Other

- Contact Name
- Contact Phone Number
- Company Name
- Email Address
- Comments
New Release & New Entrant Testing in the CLEC Test Environment

This section provides information regarding the CLEC (TC) Test Environment (CTE) and the procedures for new release and new entrant TC testing.

The CLEC Test Environment is a separate systems environment that contains the application-to-application interface and gateway applications for preordering and ordering. This environment is used for TC testing both new release testing and new entrant testing. TCs are responsible for establishing and maintaining connectivity into the CLEC test Environment. Provided a TC uses the same connectivity option as it uses in production, the TC should, in general, experience response times similar to production. However, this environment is not intended for volume testing. The CLEC Test Environment contains the appropriate applications for pre-ordering and Local Service Request (LSR) ordering up to and including the service order processor.

The CLEC Test Environment allows for comprehensive testing of Pre-Ordering and LSR Ordering functionality. All pre-order functionality is available in the CLEC Test Environment excluding the installation status inquiry, XDSL loop qualification inquiry, and loop qualification inquiry extended transactions. Arrangements will be made with interested TCs to test these functions in production. Ordering functionality is tested from receipt of an LSR via EDI through the creation of a service order and the return to the TC of confirmations and completions (as negotiated with Frontier). Service orders associated with LSRs that flow through will be entered into the service order processor. Frontier will manually enter Service orders associated with LSRs that do not flow through into the service order processor. Once the service orders have been entered into the service order processor, confirmation notices will be generated automatically. Completion notices are generated through a process that simulates completion processing in production. Frontier will work with each TC to identify specific test scenarios in the TCs test plan to test completion processing. Data on completion notices will be sample data and may not be specific to each test account.

In the CLEC Test Environment, service orders will not impact the end state of accounts. Therefore, a CSR inquiry will not reflect any changes to the end state of accounts as a result of a service order. Also, an LSR cannot be issued to migrate a retail account to a TC and then a subsequent LSR issued to do post migration changes. Post migration changes may be done against accounts that were previously set up for each TC.

Any special procedures required due to geographical or system differences will be reviewed with the participating TC prior to the implementation of their testing phase.
The CLEC Test Environment will contain the data associated with a wide range of accounts. TCs participating in new release or new entrant testing will be solicited for the accounts they need to have in the environment. TC specific accounts will be generated for each TC along with a group of retail accounts to be used by all TCs. The environment will also contain the data necessary to support the Quality Baseline Validation Test Decks.

Not all addresses and telephone numbers from production will be loaded into the CLEC Test Environment. Addresses and telephone numbers from representative NPAs will be in the environment. These addresses and telephone numbers can be used for pre-order and order transactions.

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**Definitions**

New entrant testing is the process TCs must go through prior to submitting live LSRs or pre-order transactions to Frontier in the production environment through an application-to-application interface. This testing is important to ascertain that the trading partner OSS interfaces and interactions work to the satisfaction of both the TC and Frontier - and that no adverse operational impacts are likely to occur to other operating TCs. This process does not apply to the Web GUI interface.

New entrant testing is intended for those TCs that are not currently in production or that want to test new ordering or pre-ordering transactions for which they have not been through testing.

There are three phases to new entrant testing. The first, connectivity testing, ensures that the TC connectivity option is functioning properly. The second phase is the actual transmission of test transactions and responses and is conducted in the CLEC Test Environment. The third phase involves allows the TC to begin friendly production testing.
The duration of new entrant testing will vary based on the complexity of services being tested and the type of connectivity requested by the TC. A TCs expertise with establishing connectivity and processing EDI transactions will greatly impact the duration of new entrant testing. Frontier will work with the TC to complete new entrant testing as expeditiously as possible.

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**Development of a Test Plan**

1. The TCs will advise Frontier when they are ready to use application-to-application interfaces to conduct business with Frontier. There will be a meeting or conference call between the TC and Frontier to discuss connectivity. A testing coordinator is assigned to the TC at this time.

2. TC obtains and reviews the most current EDI and Business Rules documentation from the Frontier web site and will contact their test coordinator when ready to test.

3. The TC and Frontier test coordinator will jointly develop the TCs test plan. For ordering, the scenarios will be determined by the business the TC will be in (Resale, UNE, Platform), the markets they will serve (residence/business), and the types of transactions (Migrate as is, Migrate as Specified, New, Changes, etc). The scenarios should include supplemental transactions. Pre-Order transactions are based on which transactions the TC will be using in production (CSR retrieval, TN selection, etc). Frontier will assist in the determination of which scenarios are needed based on previous testing experience. TCs will be required to test at least one scenario of each type of transaction they will be using in production. For ordering, TCs will be required to test each of the three types of supplementary LSRs (change date due, cancel, other). Frontier will support up to 5 test cases of the same transaction. The scenarios will be grouped into logical phases based on type of request (Resale, UNE, Platform), complexity of request (single line, multiline), or other logical grouping. The TC and Frontier will develop a schedule including intermediate milestones for the test. This schedule will be reviewed and updated on a regular, periodic basis. Frontier will provide a spreadsheet for the TC to enter a description of each scenario and the PON number used to transmit the scenario. See sample spreadsheet at end of this section.
Test Account Establishment

Frontier will review each scenario and determine what test account can be used for that scenario. The scenarios contained in the Quality Baseline Validation Test Decks used in new release testing are also available for TCs use in new entrant testing. The TC may elect to submit scenarios contained in the test decks and/or develop new scenarios to use during new entrant testing. If new test accounts are required, Frontier will build these accounts, as required, within two weeks. If test deck accounts are selected to use during new entrant testing, Frontier will update them to reflect the TC’s AECN or RSID. Frontier will provide the TC with the necessary account information including BTN, SBN, etc. Test deck documentation is posted to the Frontier Wholesale web site.

New Entrant Testing Process

TCs may submit test transactions into the CLEC Test Environment from 8:00AM to 8:00 PM Eastern, Monday through Friday. Frontier will negotiate with any TC for any request for a different schedule through the Change Management Process. In addition, the one exception to this time will be during the four weeks of New Release testing, when availability will be 8:00AM to 5:00PM, Eastern. Any exception to the process can be worked between TC and the test coordinator. Frontier personnel will be available to support the TC during normal business hours. The CLEC Test Environment will be unavailable for new entrant testing on the Friday before a new release is implemented in the CLEC Test Environment or in production. The TC and Frontier will use the spreadsheet at the end of this section to communicate when PONs will be delivered to Frontier and the status of each PON. The spreadsheet will be sent through e-mail. The TC will notify Frontier via the spreadsheet of the intent to transmit EDI transactions and the associated PON numbers. Frontier will provide a status of the PON via the spreadsheet through e-mail by the next business day. The status will indicate if the PON completed successfully or contained errors. Frontier will also provide telephone support for the test throughout the day via the Testing Coordinator. If necessary, the Testing Coordinator will arrange for conference calls between the TC and Technical Support staff. The Testing Coordinator will be the TCs point of contract for all troubles and issues identified during the test including the "friendly production" phase.

Frontier will track issues arising during the test. Each issue will be documented and logged into an issue tracking document. The status of each open issue will be reviewed on a regular, basis as established at the test planning meeting.

Entrance/exit criteria are established for each phase of testing. The basic criteria for exiting the connectivity test phase are the ability of the TC and Frontier to
successfully pass and receive information across the interface. The exit criteria for each phase of transaction testing will be the successful completion of the transaction in that phase including proper responses being returned to the TC by Frontier.

Sample PON Tracking Spreadsheet

<table>
<thead>
<tr>
<th>TC Test Case #</th>
<th>Version</th>
<th>Description</th>
<th>PON #</th>
<th>Date/Time Sent To Frontier</th>
<th>Pass/Fail</th>
<th>Issues</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AA</td>
<td>Change Hunting from C to S, Add additional DL</td>
<td>TESTPON01</td>
<td>3/22/99 6:30p.m.</td>
<td>Fail</td>
<td>There should not be an ALI on second DL form because LACT is N</td>
</tr>
<tr>
<td></td>
<td>AB</td>
<td></td>
<td></td>
<td>4/01/99 10:00 a.m.</td>
<td>Fail</td>
<td>REQTYP missing</td>
</tr>
<tr>
<td></td>
<td>AC</td>
<td></td>
<td></td>
<td></td>
<td>Pass</td>
<td>LSC sent</td>
</tr>
<tr>
<td>2</td>
<td>AA</td>
<td>Change Hunting from P to M, change to Non-Pub</td>
<td>TESTPON02</td>
<td>3/22/99 6:30 p.m.</td>
<td>Pass</td>
<td>LSC sent</td>
</tr>
<tr>
<td>3</td>
<td>AA</td>
<td>Remove Foreign Listing</td>
<td>TESTPON03</td>
<td>3/28/99 1:00 p.m.</td>
<td>Fail</td>
<td>Failed in EDI for incorrect EDI sequence. Please review LSR to insure EDI segments in correct order.</td>
</tr>
<tr>
<td></td>
<td>AB</td>
<td></td>
<td></td>
<td>3/30 11:50 a.m.</td>
<td>Fail</td>
<td>Initiator ID and Initiator tel no not sent.</td>
</tr>
</tbody>
</table>
## Change Log

<table>
<thead>
<tr>
<th>Date</th>
<th>Page Number</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/18/2015</td>
<td>2</td>
<td>Add Test Team contact information</td>
</tr>
</tbody>
</table>

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