**CLEC / Vendor / WSP\***

**Pre-Ordering/Ordering Interface Testing Practices and Procedures (TPP) for CAVE**

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AT&T Alabama, AT&T Florida, AT&T Georgia, AT&T Kentucky, AT&T Louisiana, AT&T Mississippi, AT&T North Carolina, AT&T South Carolina and AT&T Tennessee (collectively referred to for purposes of this document as “AT&T”)

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# About This Document

## Objective

This document sets forth the AT&T Testing Practices and Procedures (TPP), as they relate to the electronic interface pre-ordering and ordering testing for new and existing CLECs/Vendors/WSPs\* in the Southeast region. Upon the initiation of testing, CLECs/Vendors/WSPs\* shall be bound by the practices and procedures set forth in this document.

This document/process addresses the following electronic interfaces:

* Local Service Request (LSR) Extensible Markup Language (XML) Gateway
* Local Service Request Exchange System (LEX)
* Enhanced Verigate

## Intended Audience

This practices and procedures document is designed for use by Competitive Local Exchange Carriers (CLECs) who order local exchange products and services from AT&T**,** software vendors who provide electronic commerce software and/or services to the CLEC community, and Wireless Service Provides (WSPs) who use local ordering forms for local number portability (WLNP).

## How to Use This Document

This document is divided into sections that serve as a reference on the various aspects of testing. The new entrant/new product, new release, and regression testing sections describe the categories of electronic interface testing supported by AT&T. Review these sections to determine which category of testing would be applicable to meet your company’s testing objectives. Each category provides information to assist you in determining which phases of testing are required, based upon the type of electronic interface you would be using.

## Acronym Definitions

The following acronyms are used throughout this document:

|  |  |
| --- | --- |
| CABS | Carrier Access Billing System |
| CAVE  | CLEC Application Verification Environment |
| CC | Company Code |
| CLEC  | Competitive Local Exchange Carrier |
| CRISCSR | Customer Records Information SystemCustomer Service Record |
| FOC  | Firm Order Confirmation |
| GUI | Graphical User Interface |
| LAN  | Local Area Network |
| LEX | Local Service Request Exchange System |
| LNPLOA  | Local Number PortabilityLetter of Agency and/or Letter of Authorization |
| LSC | Local Service Center |
| LSOG | Local Service Ordering Guidelines |
| LSOR | Local Service Ordering Requirements |
| LSR  | Local Service Request |
| NPAC  | Number Portability Administration Center |
| OSS  | Operational Support Systems |
| PON | Purchase Order Number |
| PVT  | Production Verification Testing |
| SVP  | Software Vendor Process |
| TCC | Test Case Catalog |
| TEST | Testing Environment Staging Tool ( BIRT) |
| TPP | Testing Practices and Procedures |
| WLNP | Wireless Local Number Portability |
| WSPWSS | Wireless Service ProviderWholesale Support Specialist |
| XML | Extensible Markup Language |
|  |  |

# Introduction to AT&T Testing

At AT&T, we know that testing is an integral step to ensuring the success of our customer’s new software/product implementations.

Through our mutual testing exercises, we work together with CLECs/Vendors/WSPs\* deploying new interfaces to verify connectivity of our respective applications, compliance with the applicable standards, successful exchange of ordering/pre-ordering transactions, and understanding of basic ordering principles. The testing process also supports CLECs/Vendors/WSPs\* with existing interfaces who wish to test AT&T pre-release functionality or perform regression testing against the AT&T systems due to changes within their own interfaces. In addition, the process supports software vendors applying for AT&T approved certification on a particular interface, product, or release.

## Internal Testing and Quality Assurance Process

To ensure the integrity of the software and systems that are made available to the CLEC/Vendor/WSPs\* community, AT&T performs rigorous internal quality assurance testing of every software release prior to the production implementation. This includes:

* Systems and integration testing to ensure end-to-end integration.
* Functional based testing against user and system requirements, which validates existing and new functionality.
* Regression testing to make certain that existing functionality continues to work as intended.

# Testing and Technical Support

Depending on the type of testing, you will work with various groups within AT&T as you progress through the testing process. Each group is specialized to perform certain support functions. Contact information for these groups can be found on the AT&T Interface Implementation and Testing Home Page, which is located at [AT&T Clec Online (att.com)](https://clec.att.com/clec/hb/shell.cfm?section=2824&redirectsection=2824)

General questions regarding the testing process, the AT&T Interface Implementation and Testing Home Page, or TEST can be sent via email to electronic.interfaces@att.com

## Wholesale Support Specialist (WSS)

|  |  |
| --- | --- |
| **Responsibilities** | The Wholesale Support Specialist serves as the initial point of contact for CLECs and vendors wishing to establish a new, or modify an existing, electronic implementation with AT&T and for WSPs who wish to use electronic interfaces for the local ordering portion of WLNP. In addition to providing assistance to CLECs and WSPs during their initial Electronic Interface planning, the WSS also provides support for the many activities associated with connectivity management. If an OSS software vendor/SVP vendor is testing for the CLEC, the WSS will be the primary point of contact.  |
| **Test Phases** | The Wholesale Support Specialist is primarily responsible for pre-testing and connectivity setup activities; however, it is actively engaged throughout the testing process. |
| **Hours** | Monday – Friday, 8:00 AM – 5:00 PM Central |

## CLEC Vendor Test Team

|  |  |
| --- | --- |
| **Responsibilities** | The CLEC Vendor Test Team works with CLECs, WSPs, and Vendors to negotiate test dates and test plans, while coordinating activities with and engaging other internal teams as needed. After a CLEC/Vendor/WSP\* has established connectivity with AT&T, the test team serves as the primary point of contact for validity and PVT testing related issue resolution.  |
| **Test Phases** | The CLEC Vendor Test is primarily responsible for the Validity (XML, LEX, & Verigate) and Production Verification Testing (XML) phases.  |
| **Hours** | Monday – Friday, 8:00 AM – 5:00 PM Eastern |

## Software Vendor Process (SVP) Manager

|  |  |
| --- | --- |
| **Responsibilities** | The SVP Manager is the initial point of contact for certification of vendors that develop products/services that work with AT&T’s Electronic Interfaces for CLECs and WSPs\*. The SVP Manager is for vendors who wish to certify their software with AT&T. Activities include:* SVP Contract negotiations
* Vendor/CLEC and Vendor/WSP LOA
* Relationship Management
* Certification
* Press Release review/approval
* Map Migration planning
* User Requirement/LOH issue resolution
* General test/production issue resolution as needed
* Coordination of WLNP testing with vendors with LOAs from WSPs
 |
| **Test Phases** | The SVP Manager is primarily responsible for certification if desired.  |
| **Hours** | Monday – Friday, 8:00 AM – 5:00 PM Eastern |
|  |  |
|  |  |

AT&T will attempt to accommodate requests from CLECs/Vendors/WSPs\* for support outside of the systems’ hours of availability (located in Section 4) and team support hours (listed above) on a case-by-case basis.

Once a CLEC or WSP has successfully implemented into production, the Wholesale Support group will be the primary contact for system outage/trouble reporting. Contact information for this group can be found on the AT&T Wholesale Services website, at: [AT&T Clec Online (att.com)](https://clec.att.com/clec/hb/shell.cfm?section=2824&redirectsection=2824)

# Testing Environment Overview

AT&T operates a test environment separate from most production systems that contain the necessary customer facing gateways and connections to downstream applications to support CLEC/Vendor/WSP\* submitted transactions. This environment in the Southeast is called the CLEC Application Verification Environment (CAVE).

CAVE supports the testing efforts of CLECs, Vendors, and WSPs\*, but also allows for testing of eligible pre-production releases, as well as regression testing. The system interfaces with certain AT&T production legacy systems (i.e., CRIS for CSR retrieval) as needed for the purpose of successfully processing test transactions as outlined in this document. This includes, but is not limited to:

* New XML Implementations (First Time)
* New Releases
* Testing to prepare for ordering of new AT&T Products

The test environment offers CLECs/Vendors/WSPs\* the opportunity to perform comprehensive testing of our pre-ordering capability. In addition, the environment also supports ordering capabilities using the Local Service Request (LSR) process, up to and including the service order generator.

Ordering capabilities are supported for the XML and LEX interfaces. Pre-ordering is supported for the XML and Verigate interfaces. This model mirrors our current production structure for those applications. However, CAVE requires unique company codes (CCs) on the LSRs submitted in this environment. Contact the CLEC Vendor Test Manager for additional details.

The AT&T CAVE test environment constantly moves between two cycles, pre-release and post-release. The environment does not support both of these cycles concurrently, meaning that the environment will not be available for testing against the present production release at the same time a pre-production release is loaded, and vice versa. Except for planned outages (see “Environment Availability”), the environment will always be in one of these cycles and available for testing activities.

During the CAVE eligible pre-release cycle (before the release is loaded in production), a copy of the upcoming production release is loaded in the environment and all test cases received are processed against that release.

During the post-release cycle (after the previous release goes to production, but before the next release is available for testing), a mirror copy of the present production release is loaded in the environment. All test cases received are processed against the same release level that presently exists in production.

CLECs/Vendors/WSPs\* are responsible for establishing and maintaining connectivity to the testing environments during the testing process. Assuming the CLEC utilizes the same connectivity option, system response times should be similar to those observed in our production environment.

The AT&T test environment is not intended for volume testing, and as such volume testing is not presently supported through this process.

## LSR Order Flow/ Notification Process

The CAVE test environment is equipped to handle testing of pre-order and ordering functionality.

If flow-through eligible (meaning LSR is accurate and eligible for total automated processing), it will result in the issuance of an AT&T service order. If the LSR is not flow-through eligible, the LSR will be routed to the LSC service representative or CLEC test manager to issue a service order.

During the processing of the LSR, all applicable solicited / unsolicited notifications will be returned back to the CLEC/Vendor/WSP\*. This includes:

* XML Acknowledgments
* Firm Order Confirmation (FOC)
* Clarification
* Reject
* Pending Order Status (POS)

The following simulated responses are available upon request:

* Jeopardy Notifications
* Completion Notification
* Billing Completion Notification (BCN)

These notifications are simulated responses that will be generated by the CLEC Vendor Testing Manager depending on the disposition of the test LSR and service order. As the service orders are not allowed to reach completion, the CLEC Vendor Testing Manager will simulate the completion notification and billing completion notifications (BCN) for test LSRs. Upon request, AT&T can also provide simulated jeopardy notices for CLECs/Vendors/WSPs testing in the CAVE environment. CLEC Vendor Testing Managers cannot provide simulated jeopardy notices for LSRs that flow through to provisioning or billing.

### LSRs Not Requiring Flow-Through to Provisioning or Billing

LSRs using AT&T test data or CLEC-provided data that includes an entry prohibiting flow-through to provisioning or billing will have no impact on the final state of the accounts used. Pre-ordering and ordering functions related to these LSRs performed while in the test environment will not alter the Customer Service Record (CSR), whether it’s a live CLEC/WSP end user or an AT&T-generated test account. As previously mentioned, when a valid LSR is submitted to the test environment it will result in the issuance of a service order. However, in the test environments all service orders will be automatically purged or cancelled prior to their completion to prevent changes to the account data if the appropriate entry is populated in the LSR. For example, an LSR sent to make post migration changes to an account that was migrated on a previously submitted test LSR would not be successful, since the test LSR to migrate the account never truly changed the account ownership.

### LSRs Requiring Flow-Through to Provisioning and/or Billing

LSRs processed in the test environments using CLEC-provided data that include an entry requesting provisioning and/or billing will result in altering the CSR as requested. CAVE will not support the provisioning and billing of REQTYP B and REQTYP C requests. When a CLEC/Vendor/WSP\* provides their own production accounts to be used in testing, the CLEC/Vendor/WSP\* assumes all responsibility for any effect, including but not limited to damage, lost data, misinterpretation, or corruption of the accounts as a result of that testing, regardless of whether intentional or unintentional. CLECs/Vendors/WSP\* must have LOAs on file in the LSC for all customer accounts reflected in these LSRs.

When testing with customer-specific data, the CLEC/Vendor/WSP\* must populate TEST/BIRT with accounts to be used and send a copy of the detailed test script and CSR for each test case via email to the CLEC Vendor Test Manager. The test script should be in the same test script template format that is used in the Test Case Catalog. An example of this is:

| **FIELDS** | **DEFINITIONS** | **INPUT** |
| --- | --- | --- |
| **LSR FORM** |
| **Administrative Section** |
| CCNA  | Customer Carrier Name Abbreviation | **ZXL** |
| PON  | Purchase Order Number | **17B39** |
| AN  | Account Number | **770M050801801** |
| ATN  | Account Telephone Number | **6782779112** |
| PROJECT | Project Identification | **CAVEBILL** |
| SC  | Service Center | **LCSC**  |
| D/SENT  | Date Sent | **20040000** |
| DDD  | Desired Due Date | **20040000** |
| REQTYP  | Request Type | **BB** |
| ACT  | Activity Type | **V** |
| MI | Migration Indicator | **C** |
| CIC | Carrier Identification Code | **5124** |
| CC  | Company Code | **9999**  |
| ACTL  | Access Customer Terminal Location | **RSWLGAMADS1** |
| RESID | Response Identifier | **ABC123** |
| TOS  | Type of Service | **1A--** |
| LSO  | Local Service Office | **770992** |
| NC  | Network Channel Code | **TY--** |
| **Billing Section** |
| BI1  | Billing Account Number Identifier 1 | **L**  |
| BAN1  | Billing Account Number 1 | **770Q887771771** |
| BI2  | Billing Account Number Identifier 2 | **N** |
| BAN2  | Billing Account Number 2 | **770Q883523523** |
| ACNA  | Access Customer Name Abbreviation | **ZXL**  |
| **Contact Section** |
| INIT  | Initiator Identification | **Bojangles** |
| TEL NO-INIT  | Initiator Telephone Number | **8884448888** |
| FAX NO-INIT  | Initiator Facsimile Number | **4448884444** |
| IMPCON  | Implementation Contact | **Rep** |
| TEL NO-IMPCON  | Telephone Number-IMPCON | **4045550000** |
| REMARKS  | Remarks | **Test Account Do Not Process** |
| **EU FORM** |
| NAME | End User Name | **Four Leaf Clover** |
| SANO  | Service Address House Number | **60** |
| SASN  | Service Address Street Name | **Oak** |
| SATH  | Service Address Street Type | **St** |
| CITY  | City | **Roswell** |
| STATE  | State | **GA** |
| ZIP CODE  | Zip Code-End User | **30075** |
| ELT | End User Listing Treatment | **C** |
| **Bill Section** |
| EATN  | Existing Account Telephone Number | **6782779112** |
| FBI | Final Billing Indicator | **N** |
| **NP FORM** |
| LQTY  | LOOP Quantity | **003** |
| LNUM  | Line Number | **00001** |
| LNA  | Line Activity | **V** |
| CABLE ID  | Cable Identification | **PTQW1** |
| CHAN/PAIR  | Channel Pair | **101** |
| PORTED NBRs  | Ported Telephone Number | **6782779112** |
| NPT  | Number Portability Type | **D** |
| LNUM  | Line Number | **00002** |
| LNA  | Line Activity | **V** |
| CABLE ID  | Cable Identification | **PTQW1** |
| CHAN/PAIR  | Channel Pair | **102** |
| PORTED NBRs  | Ported Telephone Number | **6782778901** |
| NPT  | Number Portability Type | **D** |
| LNUM  | Line Number | **00003** |
| LNA  | Line Activity | **V** |
| CABLE ID  | Cable Identification | **PTQW1** |
| CHAN/PAIR  | Channel Pair | **103** |
| PORTED NBRs  | Ported Telephone Number | **6782779899** |
| NPT  | Number Portability Type | **D** |
| NPQTY  | Number Portability Quantity | **00003** |
| **DL FORM** |
| **Listing Control Section** |
| DL NUM  | Directory Listing Number | **0001** |
| LACT  | Listing Activity Indicator | **N** |
| RTY  | Record Type | **LML** |
| FIELDS | DEFINITIONS | **INPUT** |
| LTY  | Listing Type | **2** |
| STYC  | Style Code | **SL** |
| TOA  | Type of Account | **B** |
| DOI | Degree of Indent | **0** |
| **Listing Instruction Section** |
| LTN | Listing Telephone Number | **6782779112** |
| LNLN  | Listed Name Last | **Four** |
| LNFN  | Listed First Name | **Leaf Clover** |
| LANO  | Listed Address House Number | **60** |
| LASN  | Listed Address Street Name | **Oak** |
| LATH  | Listed Address Street Type | **St** |
| YPH  | Yellow Page Heading Code | **999001** |
| **Advertising Section** |
| SIC  | Standard Industry Classification | **7999** |

For CRIS customer service records, send the entire CSR to the test manager. For CABS customer service records, send only the detailed circuit level pages.

The responsibility of the CLEC Vendor Test Manager ends at FOC on all LSRs requiring flow-through to provisioning and/or billing. CLECs/Vendors/WSPs with questions or issues that arise after FOC should refer these to the appropriate service center that would normally handle these production orders. As CLEC Vendor Test Managers are unable to simulate jeopardy or completion notices on “live” requests, these notices cannot be provided on any test using customer-specific data and marked for flow-through to provisioning and/or billing.

AT&T will monitor test account LSRs that are flowing through to provisioning and/or billing to ensure that there is no negative impact on production orders or systems. AT&T reserves the right to temporarily halt all of the above-referenced tests without prior notification if any production-affecting problem arises. Order flow will resume after the problem is resolved.

### Use of the Project Field for Firm Order LSRs

When testing in CAVE, CLECs/Vendors/WSPs must populate the Project field on firm order LSRs with either CAVEBILL (LSRs requiring flow-through to provisioning and/or billing) or CAVENOBILL (LSRs not requiring flow-through to provisioning and/or billing), regardless of which REQTYP or ACTTYP is being tested. Failure to populate this field may result in receipt of an error message.

To submit single orders in a bulk arrangement (REQTYP B only), the Project field must appear as follows: XXXXXBULK. Xs represent your data. The last 4 characters of the project field must be BULK.

## Environment Availability

The CAVE environment will be available for testing of eligible pre-release code in accordance with the Change Management process (no less than five weeks prior to the production release, which includes a quiet week). Outside of that pre-release testing window, CAVE will be available to support testing against a copy of the present production release.

The CAVE test environment will be unavailable for loading the pre-release code the week prior to the scheduled testing. AT&T will provide notification detailing downtime/preparation window.

Unless otherwise noted, CAVE will be available for the receipt and transmission of test transactions Monday through Thursday, from 8:00AM Eastern through 8:00PM Eastern and on Friday from 8:00AM through 5:00PM. Support from the testing teams for test case analysis/problem resolution will be provided within the hours outlined in Section 3 (Testing / Technical Support). AT&T will attempt to accommodate CLECs/Vendors/WSPs\* requiring after hours/weekend testing on a case-by-case basis.

AT&T will provide the CLEC/Vendor/WSP\* community with formal notification should an exception to any of the aforementioned processes / configurations occur. When future variances are expected to occur (i.e., those generated by upcoming release functionality) advance notification will be provided.

### Unsupported Testing in CAVE

AT&T allows unsupported testing in the CAVE environment provided all unsupported testing is performed during published hours of availability for the CAVE environment. The CAVE environment has scheduled published hours of unavailability during which no testing can be performed. These periods of unavailability are necessary to allow AT&T the opportunity to perform maintenance of the environment. Unsupported testing is defined as testing that does not require a CLEC Vendor Test Manager to establish or assist with the execution of test cases nor to assist in the analysis of test case results. An example of unsupported testing is when a CLEC or vendor wants to perform optional or voluntary regression testing of their software in CAVE using test cases previously provided by AT&T during other testing activities or using test cases selected solely from the AT&T Test Case Catalog. AT&T allows unsupported testing in the CAVE environment but does not allow unscheduled testing. It is necessary to schedule Unsupported Testing so that AT&T can ensure the availability of test environment capacity and so that AT&T Application and Technical Support teams who monitor the CAVE environment are aware of users who may be impacting or may be impacted by unusual or unscheduled events that may happen in the test environment from time to time (ex. Unplanned downtime, outages, software loads, etc.). Scheduling of unsupported testing in CAVE requires the submission of a TEST Request and an optional kickoff call, at the discretion of the AT&T WSS Manager or Software Vendor Process Project Manager, if required to ensure a coordinated exchange of application configuration information. If unsupported testing in CAVE is requested, no AT&T Test Manager will be involved in the overall provisioning of test case scripts, whether from the TCC or Custom Scripts requested.

When scheduling unsupported testing in TEST the start and end date fields in the TEST Request Profile must be populated. AT&T will allow a maximum time span from the start of the release pre-soak up to the blackout period, i.e., one unsupported testing Test Request Profile per new release. When performing unsupported testing in CAVE, customers are not permitted to use the CAVEBILL function.

After a customer submits a Test Request Profile in TEST that specifies unsupported testing, the WSS manager/SVP project manager will review the request and change the status to Review Complete. The customer may begin testing as soon as the profile status is changed, and the testing start date has arrived. At their discretion, WSS/SVP PM may request a conference call with the customer to discuss the request. No other support will be provided on these test request profiles by WSS, SVP, or the CLEC test manager. If for any reason additional support is needed from WSS, SVP, or the CLEC test managers the customer must initiate a new test request for supported testing.

## Test Case Catalog (TCC)

To assist CLECs, WSPs, and Vendors during their testing, AT&T will publish a regression Test Case Catalog (TCC) that provides test data reflecting a broad sampling of the order and pre-order scenarios available in the AT&T OSS’s. CLECs/Vendors/WSPs\* may execute “test cases” included in this catalog during their LEX and XML validity testing phase in CAVE, in addition to any “custom built” test cases that are requested in advance. One week prior to the start of the pre-release testing cycle, AT&T will publish a draft copy of the updated TCC that reflects the new ordering scenarios and functionality to be introduced with the new release. Two weeks after the release production implementation, AT&T will publish a final copy of the updated TCC.

The TCC will be posted on the CLEC testing website, as follows:

[AT&T Clec Online (att.com)](https://clec.att.com/clec/hb/shell.cfm?section=2823&hb=507)

Each **“**test case" in the catalog will consist of the following:

* Test Scenario - a plain English description/summary of the test.
* Test Script - a list of the LSR field names, descriptions of each field name, and the values that belong in each field for the purpose of executing the test.
* XML LSR - an example of the test case LSR in XML submission format
* LSR Response - an example of the typical XML response data that would follow submission of the test LSR.
* LEX Fields - To aid CLECs submitting through the LEX GUI, any LSR fields that are not applicable (due to up-front or back-end auto-population by the GUI) will be specially marked.

## Testing Data

In addition to containing the accounts created for our published Test Case Catalog, CAVE can support a wide range of test data associated with various account conditions and product types.

All pre-ordering transactions in CAVE will necessitate the use of AT&T specific data (i.e., OCN, BAN, etc.). Firm ordering transactions in CAVE may use Test Case Catalog scenarios using AT&T specific data, Test Case Catalog scenarios using customer specific data, custom test scenarios using AT&T specific data, or custom test scenarios using customer specific data. When test scenarios are requested using customer specific data, detailed scripts including this data must be sent via email to the CLEC Vendor Test Manager.

## CAVE Release Implementation and Testing Timeline

The following list describes when certain events will occur for releases that are eligible to be tested in the CAVE environment prior to their production implementation.

* 1 Week Prior to CAVE Pre-Release Testing Window
	+ AT&T publishes a draft copy of the test case catalog, updated to reflect the new release changes/functionality
	+ AT&T starts publishing daily testing environment status reports
* Week Prior to Start of CAVE Pre-Release Testing Window
	+ The CAVE test environment will be unavailable while internal activities are conducted to prepare the environment for pre-release testing

* Every Week During CAVE Pre-Release Testing Window
	+ AT&T holds weekly testing status calls with the CLEC community
	+ AT&T updates the copy of the release loaded in the CAVE test environment after normal operating hours, as needed
	+ AT&T publishes a testing environment status report
* 2 Weeks Prior to Release Production Implementation
	+ AT&T conducts a CLEC release implementation recommendation vote/conference call
* **One week prior to Release production implementation CAVE test environment be down**
	+ CLEC/Vendor/WSP\* pre-release testing concludes.
* Two Weeks After Production Release Implementation
	+ AT&T publishes a final copy of regression test case catalog (TCC).

## Suspension of Testing

AT&T will place a cap on extensions for both supported and unsupported testing. As a general rule, we will allow a maximum number of two date extensions of up to five business days each, for a total of ten business days. At the end of the ten business days AT&T will issue a suspension letter via e-mail, and the customer must start the process again by issuing a new TEST request. The exception to this will be tests that are put on hold due to technical issues. Also, failure to respond to AT&T inquiries after the testing window has expired will result in suspension. AT&T will e-mail a suspension notice on the day following the expiration date. If the customer does not respond within one business week, AT&T will suspend the request and the customer must issue a new TEST request to restart the process. After customer testing has been suspended the entire testing process will start over from the beginning. At the discretion of the WSS Manager / SVP Project Manager a new “kickoff” conference call may be required.

##  Disable Process

At the conclusion of testing each CLEC/Vendor/WSP\* will be disabled from the CAVE environment. The date in which a CLEC/Vendor/WSP will be disabled depends on the dates agreed upon between the customer and AT&T representatives.

# Maintaining Your Company Test Profile

In order for a CLEC/Vendor/WSP\* to test with AT&T, it is necessary for AT&T to exchange certain configuration parameters to ensure both parties are ready for testing.

The Testing Environment Staging Tool (TEST), is a secure web-based system, will allow the CLEC/Vendor/WSP\* to enter any applicable XML/LEX configuration parameters, as well as their proposed testing dates and contact information. This information will be stored and forwarded to the appropriate AT&T organizations. Submission of this information will kick off the testing process and notify AT&T of the intent to test.

Any time a CLEC/Vendor/WSP\* wishes to test with AT&T, they must submit a Test Request into the TEST system. If they have previously tested with AT&T, the information previously supplied can be retrieved and pre-populated on the form. If there are no changes, the CLEC/Vendor/WSP\* would only need to review the existing information and supply the information specific to the new Testing Request. Otherwise, the CLEC/Vendor/WSP\* would update any information that has changed so that AT&T can ensure the appropriate changes are made to the configuration parameters.

Once the test request has been submitted, AT&T will assign a Test Manager(s) and Wholesale Support Specialist to work with the CLEC to facilitate arrangements for testing. A minimum one-week processing period will be required prior to the start of any testing session (starting from the date an accurate profile is submitted). However, CLEC Vendor Test Managers will start working with the CLEC/Vendor/WSP\* to establish a mutually agreed-upon test plan during this period. As part of this process, a “kick-off” conference call will be held with the assigned CLEC Vendor Test Manager and WSS/SVP project manager to arrive at mutually agreed-upon test dates.

Information on how to request access to TEST/BIRT is contained on the AT&T Interface Implementation and Testing Home Page, which is located at [AT&T Clec Online (att.com)](https://clec.att.com/clec/hb/shell.cfm?section=2823&hb=507). In addition to containing a link to TEST, this website also contains the latest copy of the TEST User Guide. The TEST User Guide provides detailed instructions on how to navigate in TEST, as well as how to properly submit information through the various online profiles.

In the event of an extended TEST outage or functionality impairment, AT&T will also maintain a set of Microsoft Word/Adobe PDF forms that can also be utilized to submit testing and implementation related information. In such an event, those forms would be sent to the CLECs assigned WSS/SVP contact via e-mail or fax.

Any time a CLEC/Vendor/WSP\* upgrades to a new release or moves to a new platform (new IP address, new server, new Trading Partner ID), they should contact their WSS to update this information in AT&T’s electronic interfaces. When such changes occur, connectivity testing may be needed before validity testing will begin.

If a CLEC/Vendor/WSP\* wants to request an extension of the testing dates, this request must be negotiated with the CLEC Vendor Test Manager.

# Creating a Test Plan

For the purpose of organizing the various testing activities, and to assist you in choosing the type of testing that best meets your business needs, AT&T presently uses three categories to classify electronic interface testing (covered in more detail later in this document). These categories are:

* New Entrant/New Product testing
* New Release Testing
* Regression Testing.

Regardless of which category your testing effort might be classified under, it is AT&T’s ultimate goal to support each CLEC/Vendor/WSP\* testing needs.

After a CLEC/Vendor/WSP\* notifies AT&T of their intent to test and submits the necessary information, a CLEC Vendor Test Manager will be assigned to work with the CLEC to negotiate a test plan. Working together, the CLEC/Vendor/WSP\* and CLEC Vendor Test Manager will develop a test plan that fits the needs of the CLEC/Vendor/WSP\*, while meeting any applicable AT&T testing requirements. This test plan will detail a list of every planned test case, as well as the targeted dates associated with the testing window. The information in the test plan will be updated, as needed, during the planning period, as well as during the actual testing window, if needed. The CLEC/Vendor/WSP\* and the CLEC Vendor Test Manager will negotiate the number of test cases that will be sent simultaneously (i.e., in a block) during the kickoff call. The average number of test cases per block will generally be 4-6, but AT&T will remain flexible in order to accommodate the needs of the CLEC/Vendor/WSP\*. If a test case in a block encounters problems and does not go through, the remaining cases will be sent through and the CLEC/Vendor/WSP\* will be permitted to send the next block of test cases while the issue is resolved.

When working to establish a test plan, the CLEC/Vendor/WSP\* can utilize any of our published test scenarios as-is. Should the CLEC/Vendor/WSP\* need a test case that is not addressed in our Test Case Catalog, AT&T will work with them to establish any additional test accounts that may be needed (within the limits of the test phase) in order to fulfill their individual testing needs. If AT&T is unable to locate a test case to match the CLEC’s custom request within its Test Case Catalog, there may be a nominal delay while we build and pretest the requested test case. Optionally, the CLEC/Vendor/WSP can provide their own production account data to be used in either of the manners specified above, that is, either in conjunction with a test case from the Test Case Catalog or in conjunction with a customized test case provided by AT&T. When a CLEC/Vendor/WSP\* provides their own production accounts to be used in testing, the CLEC/Vendor/WSP\* assumes all responsibility for any effect, including but not limited to damage, lost data, misinterpretation, or corruption of the accounts as a result of that testing, regardless of whether intentional or unintentional.

AT&T published a sample Integrated Test Plan and Status Report spreadsheet (collectively referred to as the “Test Plan”) used by the CLEC/Vendor/WSP\* during testing on the Testing Documentation website [AT&T Clec Online (att.com)](https://clec.att.com/clec/hb/shell.cfm?section=2823&hb=507). Whenever a CLEC/Vendor/WSP\* submits a transaction into CAVE, the assigned CLEC Vendor Test Manager should be notified of the CC, PON and version number or the test case number and inquiry number of the transaction via email. Upon review of the order, the CLEC Vendor Test Manager will update the spreadsheet with the order disposition, as well as any relevant notes. This spreadsheet will serve as a cumulative log of the CLEC/Vendor/WSP\* testing activities, issues, and progress throughout all phases of testing with AT&T.

# New Entrant/ Product Testing Category

Summary:

This category of testing encompasses CLECs/Vendors/WSPs\* who are turning up a new interface or are preparing to order a new AT&T product category. New entrant testing is intended for those CLECs/Vendors/WSPs\* that are not currently in production or who want to test new ordering or pre-ordering interfaces or transactions for which they have not previously tested. This testing is recommended prior to submitting live LSRs or pre-order inquires to AT&T in the production environment through an application-to-application interface.

This section describes the different testing categories for CLECs/Vendors/WSPs\* using the XML or LEX interfaces.

## New Entrant/ Interface Testing Process

New Entrant/Interface Testing would be performed when a CLEC/Vendor/WSP\* is establishing or adding an XML interface with AT&T. This testing is performed prior to the initial submission of LSRs and/or pre-ordering transactions to production on the new interface.

There are two stages to new entrant testing, both of which are conducted in CAVE. Connectivity Testing is conducted first and should be arranged with the CLECs/Vendors/WSPs Wholesale Support Specialist (WSS). Additional details can be found at <https://clec.att.com/clec_xmlsupport>.

After connectivity testing is complete, validity testing may be initiated by submitting a test plan in the Testing Environment Staging Tool (TEST). See section 5 for further information on submitting a test request and plan in TEST. See section 10 for additional details on performing validity testing via the XML interface.

## New Product Testing Process

CLECs/Vendors/WSPs\* who wish to implement ordering of a new AT&T product category for which they have not previously tested with AT&T would go through New Product Testing. For example, this type of testing is required for CLECs/Vendors/WSPs\* who wish to offer certain product they have never ordered in production.

Since CLECs/Vendors/WSPs\* performing New Product Testing should already have established an electronic interface to AT&T, connectivity testing is not required. Validity testing should be requested for the new product types by submitting a test plan in TEST.

# New Release Testing Category

Summary:

The New Release Testing Category is required for those CLECs/Vendors/WSPs\* who wish to test pre-release functionality, as well as those CLECs/WSPs/Vendors who are performing XML upgrades.

## Pre-Release Testing

Pre-release validity testing is open to CLECs/Vendors/WSPs\* who currently submit transactions using XML and may only test using such interface. In addition, testing will only be allowed on the release level presently supported in CAVE.

In order for CLEC/Vendor/WSPs to perform Pre-Release Testing:

* CLECs/Vendors/WSPs\* who wish to test the latest XML must contact their WSM for connectivity instructions.
* CLECs/Vendors/WSPs\* testing with LEX will receive a URL (web-site address), as well as a username and password to access CAVE.

CLECs/Vendors/WSPs\* are notified of the content of the release through the change management process. Per this process, AT&T issues an Accessible Letter with the specific dates of testing. CLECs/Vendors/WSPs wishing to test the new release during the Pre-Release Testing Window must submit a TEST request with a test plan identifying the nature and timing of the transactions they intend to submit.

## Local Service Request Exchange System (LEX) Testing Phase

A separate instance of the LEX web-based graphical user interface (GUI) exists in the CAVE environment for use under the New Release testing category by those CLECs/WSPs wanting to test the pre-release version of LEX. Only the validity phase of testing is applicable to the LEX interface.

Since the installation of LEX in the CAVE environment is separate from the production version of LEX, it is accessed via a different URL (website address). When a CLEC/WSP requests to test an upcoming release via CAVE LEX, AT&T will build a login and password for that CLEC/WSP to use during their testing, and provide this information to the CLEC/WSP. The CLEC/WSP will also be provided with the URL to access CAVE LEX.

Just as with production LEX, CAVE LEX is accessible via the public Internet using a web browser. After inputting the URL provided by AT&T into the web browser, the CLEC/WSP will be presented with the CAVE LEX login screen. The CLEC/WSP then inputs the login ID and password that was supplied to him/her for use during testing.

After successfully logging in, the user will be able to submit orders using the pre-release version of the LEX GUI. For additional information on using the LEX GUI, the CLEC/WSP should refer to the appropriate version of the LEX reference guide.

# Regression Testing Category

AT&T will support XML and LEX regression testing for CLECs/Vendors/WSPs\*. It can be beneficial to regression test, particularly when the following circumstances occur:

* CLECs/Vendors/WSPs\* have made software and/or hardware changes on their side of the interface and wish to test transactions associated with their present activities/certification.
* CLECs/Vendors/WSPs\* wish to test business rule changes affecting their present activities/certification.
* CLECs/Vendors/WSPs\* who are utilizing new fields.

Regression testing will be performed in CAVE and is supported for only the release level that is currently available in the environment.

# Extensible Markup Language (XML) Testing Phases

## XML Validity Testing

This testing phase allows the CLEC/Vendor/WSP\* to conduct functional based pre-release, post-release, and regression testing of the AT&T interfaces. Depending upon the testing category, the CLEC/Vendor/WSP\* may be required to process some pre-order transactions in order to be able to submit the related firm order service request.

Validity testing will be based upon the test plan negotiated between the CLEC/Vendor/WSP\* and AT&T. In addition, no NPAC messages will be sent for LNP transactions during Validity testing.

Validity testing can only be conducted in the CAVE test environment, which interfaces with production back-end systems.

### Entrance Criteria

All preceding required phases of testing, if any, completed successfully.

### Procedures

1. CLEC/Vendor/WSP\* identify the functional test cases selected from the TCC based upon negotiated test plan with their AT&T test manager or provide customized test case data to the test manager.
2. AT&T test manager and CLEC/Vendor/WSP\* agree on the date to send first Functional test order.
3. CLEC/Vendor/WSP\* notifies AT&T test manager validity test cases have been sent and provides AT&T test manager with CC, PON, test case number and version number of test cases.
4. During validity testing, the AT&T test manager will update and exchange the test case tracking spreadsheet to reflect the most recent order submission and disposition/review status.

### Exit Criteria

Successful completion of all test cases outlined in the mutually agreed upon test plan.

AT&T and CLEC/Vendor/WSP\* agree that Validity Testing has successfully completed.

## XML Production Verification Testing

This testing phase ensures that the CLEC/WSP has successfully been moved from AT&T’s test environment to the production environment. This phase is also used to verify successful implementation for a CLEC/WSP using a vendor interface.

This phase of testing only occurs in production, and as such connects to production back-end systems.

### Entrance Criteria

All preceding required phases of testing, if any, completed successfully.

### Procedures

1. CLEC/WSP electronically sends a live transaction to AT&T
2. Test manager verifies that transaction is received by appropriate production OSS.
3. Test manager verifies that transaction is received by appropriate production OSS, and that CLEC/WSP received reciprocating transaction.

### Exit Criteria

* CLEC/WSP successfully sends LSR to production environment and accesses appropriate production OSS
* AT&T successfully reacts to LSR with the appropriate response.
* AT&T and CLEC/WSP agree that Production Verification Testing has successfully completed.

# Defect Management – CLECs

During the pre-release testing phase, AT&T will provide the CLEC/Vendor community with a testing environment status report. This report will be used to track any CLEC/Vendor affecting defects that exist in the environment once it is opened for pre-release testing. The status report will be published daily during the pre-release testing period and will be posted on the AT&T Interface Implementation and Testing Home Page. It will be updated to include any known workarounds, severity level, estimated correction dates (when known), and will also serve as notification for when defects have been corrected and are ready for re-test.

In addition, AT&T will host a weekly conference call with the CLEC community during the pre-release testing phase. During this conference call, AT&T will address questions and concerns regarding the daily testing environment status reports, as well as the on-going CLEC/Vendor testing efforts.

Once the release moves to production, all tracking of any remaining defects for CLECs is done through the existing process as outlined in the AT&T Change Management Process (CMP) document.

Upon opening the environment for pre-release testing, AT&T will provide a list of all unresolved CLEC/Vendor affecting defects found by its internal QA testing groups. These defects will be tracked on the daily testing environment status report.

## Software/ Documentation Issues Discovered During Pre-Release Testing

If during the course of testing pre-release software, a CLEC/Vendor discovers a potential issue in one of the AT&T systems/documents, the AT&T test manager should be notified immediately. Upon notification, the test manager will engage the appropriate resources to research the problem.

Pre-Release Documentation Defects

If the issue is determined to be a documentation defect, AT&T will work to pursue an update to the document and will publish the findings in the daily testing environment status report.

Pre-Release Configuration Problems

If the issue is determined to be caused by a software/environment configuration problem, AT&T will immediately pursue correction of the problem and notify the CLEC when it is corrected.

Pre-Release Software Defects

If the issue is determined to be a software defect, then AT&T will pursue development of a software correction and publish a pre-release defect notification alert in the daily testing environment status report. AT&T will also provide notification of and track any additional CLEC/Vendor affecting defects discovered by its internal quality assurance testing groups during the CLEC pre-release testing window.

To facilitate resolution of issues identified, all pre-release defects will be assigned a severity level by AT&T that will be based on internal research and input from the CLECs and/or Vendors who discovered the problem or are affected by it in their testing efforts. Defects will be assigned one of the following severity levels for the purpose of prioritizing the development of a software correction.

|  |  |
| --- | --- |
| Pre-Release Defect Severity Level | Severity Level Description |
| 1 | CriticalProblem results in a complete system outage and/or is detrimental to the majority of the development and/or testing efforts.  |
| 2 | SeriousSystem functionality is degraded with serious adverse impact to the user and there is not an effective work-around.  |
| 3 | ModerateSystem functionality is degraded with a moderate adverse impact to the user but there is an effective workaround.  |
| 4 | CosmeticThere is no immediate adverse impact to the user.  |

Software corrections for defects will be handled as a priority, with the higher severity defects taking priority of development resources.

Once a software correction has been loaded in the environment to address a CLEC/Vendor affecting defect, notification will be provided via the daily testing status report.

AT&T will follow the Change Management Process (CMP) on any CLEC/Vendor affecting defects that are not corrected prior to the release going into production.

## Software/ Documentation Issues Discovered During Post-Release Testing

If during the course of testing post-release software, a CLEC/Vendor discovers a potential issue with one of the AT&T systems or published documents, the AT&T test manager should be notified immediately. Upon notification, the test manager will engage the appropriate resources to research the problem. If the issue is found to be a software/documentation defect, AT&T (unless CLEC/Vendor expresses a desire to do so) will follow the Change Management Process (CMP) to alert the CLEC community of the problem.

## Pre-Release Defects - WSP

During the pre-release testing period for each release update WSPs may view the CLEC pre-release defect management report on the Daily Testing Environment Status Report page of the AT&T Interface Implementation and Testing website. Wireless Service Providers (WSPs) who are testing interfaces for Wireless Local Portability (WLNP) local orders are not eligible to participate in the CLEC conference calls or the “Go/No-Go” decision voting.

#  Environmental Release Level Management Process

This section provides an overview of the frequency at which AT&T will update the software loaded in its test environments during the pre-release and post-release cycles. It also addresses the release implementation recommendation process, which is utilized by CLECs testing during the pre-release cycle.

## Updating the Environment During the Post-Release Cycle

If a release is implemented in the AT&T production systems while the test environment is in post-release cycle (meaning the release was not pre-tested), AT&T will update the test environment with the same release so as to match our production systems. However, should the environment be in the pre-release cycle, AT&T will provide notification as to when the updated production functionality will be integrated into the present pre-release functionality.

## Updating the Environment During the Pre-Release Cycle

While in the pre-release cycle, it may be necessary to load updated versions of the upcoming AT&T release in the environment to reflect our latest development efforts. While these changes are most often driven by correction of software defects, these updates may not always be CLEC/Vendor/WSP\* affecting.

When software correction is available, it will be loaded in the environment in the evening at the conclusion of the daily testing window.

Please note: AT&T will take immediate action to address all non-software code affecting configuration changes. As such, configuration changes do not fall under the defect/release process

Whenever a new version of pre-release software is loaded in the environment, AT&T will provide notification through the daily testing environment status report. The report will also indicate which defects the load of the updated pre-release software corrected.

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# Appendix A – Revision History

| Version | Issue Date | Section Revised | Details of Revision |
| --- | --- | --- | --- |
| 0.1 | 5/2/02 | N/A | Initial Draft |
| 0.2 | 5/20/02 | Multiple | Second Draft – Incorporated changes from 5/9/02 CLEC collaborative meeting.  |
| 0.3 | 6/17/02 | Multiple | Third Draft – Incorporated changes from 5/30/02 CLEC collaborative meeting. |
| 1.0 | 7/8/02 | Multiple | First Baseline Proposal – Incorporated changed from 6/20/02 CLEC collaborative meeting.  |
| 1.1 | 7/22/02 | Section 9Regression Testing | Updated the regression testing section to allow for support of testing business rule/documentation changes. This change was requested during the 7/11/02 CLEC collaborative meeting.  |
| 2.0 (Draft) | 10/1/02 | Multiple | Changed document name to add the word “Ordering”.Updated overall document formatChanged all instances of “Daily Testing Status Report” to “Daily Testing Environment Status Report”Updated description of the traditional test environment in Section Updated Production Release Implementation Recommendation text to match Section 10 of the CCP document. Updated testing category descriptions to match Section 10 of the CCP document. Added new testing website URL throughout document. Updated CAVE Release Implementation and Testing Timeline in Section |
| 2.0 | 10/24/02 | Multiple | Changed document name to add the word “Pre-Ordering”.Updated document objecting in section 1.1 to support elimination of a signed testing agreement/waiver. Added “Map Migration” to testing terminology in section 1.4. Updated acronym definitions list in section 1.5.Updated section 2.2 to support removal of testing waiver/agreement. Changed “CLEC Testing Website” to “BellSouth Interface Implementation and Testing Home Page”Added text supporting jeopardy notification testing in section 4.1.Updated section 4.5 to reflect that CLEC specific test plan/status updates will also be sent daily during CAVE testing. Modified section 5.0 to reference BIRT. Also added information on the BIRT user guide and outage contingency plan.Updated section 6.0 to reflect the updated “integrated test plan and status report” verbiage. Updated URLs in Appendix A.  |
| 2.1(Draft) | 3/20/03 | Multiple | Modified section 11: EDI Testing Phases to reflect BellSouths implementation of Interactive Agent (IA)Modified section 12: TAG Testing Phases to reflect BellSouths implementation of TAG XML.Added section 5.0, Obtaining/Registering Digital Certificates.Updated URLs in Appendix A to add “Local Ordering Handbook.” Modified section 4.0 to add support for testing of the Billing Completion Notice. Updated all testing categories to reflect addition of TAG XML and EDI Interactive Agent.  |
| 2.1 | 3/20/03 |  | After CLEC Review on 3/20/03 – Removed “draft” label.  |
| 2.3 | 6/9/03 | Multiple | Added IA to the acronym list in section 1.5Updated sections 8.2, 9, 9.1, and 9.2 to delete TAG API when referring to upgrades to new releases and to clarify the migration processUpdated sections 11.2.3, 11.3.3, and 11.5.2 to show that EDI pre-order requests receive an 855, whereas Firm Order requests receive a 997.Updated section 6 to indicate that a “kick off” conference call will be heldUpdated section 3 to clarify that the ECAT is the initial point of contact when vendors test for CLECs |
| 2.3 | 9/17/03 | Multiple | Updated entire document to include information for Wireless Service Providers (WSPs) that will be testing electronic interfaces for landline-to-wireless local number portability orderingUpdated several URLs cited in the documentUpdated Figures 1-3 in Section 4 |
| 2.3a | 10/06/03 | Testing & Technical Support | Updated procedures to reflect SVP PM is primary contact for all vendors working with WSPs |
| 2.4 | 11/14/03 | Digital Certificates | Updated the procedures for obtaining/registering digital certificates |
| 2.5 | 12/23/03 | Trading Partners | Updated Section 6 to include information on trading partner profiles |
| 3.0 | 4/30/04 | TAG API | Removed all references relating to TAG API, which is no longer available |
| 3.0 | 4/30/04 | Testing Environment  | Updated procedures to include use of customer-specific data in test cases |
| 3.0 | 4/30/04 | Creating a Test Plan  | Updated section to include legal caveats for use of customer-specific data |
| 3.0 | 4/30/04 | New Entrant/New Product Testing | Updated tables to reflect ‘optional’ instead of ‘not applicable’ for several testing options |
| 3.0 | 4/30/04 | New Release Testing  | Updated tables to reflect ‘optional’ instead of ‘not applicable’ for several testing options |
| 3.0 | 4/30/04 | EDI Testing Phases | Corrected section numbering and amended validity testing |
| 3.0 | 4/30/04 | TAG Testing Phases | Updated entire section |
| 3.0 | 4/30/04 | LENS Testing Phases | Deleted references to Company Code 9999 |
| 3.0 | 4/30/04 | Defect Management | Deleted obsolete reference to Release 14.0 |
| 3.0 | 4/30/04 | Test Case Catalog | Added note regarding draft TCC for Encore Release 16.0 |
| 3.0 | 4/30/04 | Testing Environment Overview | Deleted the three drawings |
| 3.0 | 4/30/04 | Creating a Test Plan | Added wording concerning negotiation of the number of test cases that may be send per day. Wording was negotiated and agreed upon during the December 11, 2003 CLEC Testing Process Meeting. |
| 3.0.1 | 7/15/04 | Testing Environment Overview | Added section 4.1.3 to address the use of the Project field in firm order LSRs being submitted to CAVE |
| 3.0.2 | 11/12/04 | Introduction | Change page reference from five to six |
| 3.0.2 | 11/12/04 | Testing Environment Overview | Added section 4.2.1 – Unsupported Testing in CAVE |
| 3.0.2 | 11/12/04 | Testing Environment Overview | Added section 4.6 – Suspension of Testing |
| 3.0.2 | 11/12/04 | Maintaining Your Company Testing Profile | Added “new Digital Certificate” to last paragraph on page 21 |
| 3.0.2 | 11/12/04 | EDI Production Verification | Added “in writing” to section 11.5.3 |
| 3.0.3 | 1/5/05 | Testing Environment Overview | In section 4.2.1, clarified definition of ‘test script’, included detailed example of a test script, and clarified definition of CSR for CABs and CRIS accounts. |
| 3.04 | 1/21/05 | Suspension of Testing | In section 4.6 added two sentences to clarify requirements |
| 3.0.5 | 3/28/05 | DTG Responsibilities | Modified the last sentence in responsibilities |
| 3.0.5 | 3/28/05 | Procedures | In section 11.5.2 added number 5 |
| 3.0.6 | 05/12/05 | Multiple | Change BellSouth Test Desk to CLEC Vendor test team |
| 3.0.6 | 5/12/05 | Software Vendor Process Manager  | Change Migration to Map MigrationChange SVP Team to SVP Manager |
| 3.0.6 | 5/12/05 | CLEC Help Desk | Removed “ (Managed by SAIC)” |
| 3.0.6 | 5/12/05 | 4.1.3 Use of Project Filed | Added 2nd paragraph addressing use of Project Filed with 19.0 release and bulk ordering for REQTYP B  |
| 3.0.6 | 5/12/05 | 9.3 EDI Map Migration | Remove empty box in center of the page |
| 3.0.6 | 5/12/05 | 10.0 Regression Testing | Added “BellSouth performs regression testing of the TCC after each code load to CAVE.” |
| 3.0.6 | 5/12/05 | 11.0 EDI Testing Phases | Added DTG under Production Verification Testing |
| 3.0.6 | 5/12/05 | 1.4 Testing Terminology | Added 836 transaction information |
| 3.0.6 | 5/12/05 | 4.7 Disable Process | Added Disable process to document |
| 3.0.6 | 5/12/05 | 3.2 CLEC Vendor Test Team | Added conducting TAG application connectivity testing paragraph. |
| 3.0.7 | 8/17/05 | 5. Digital Certificate Replacement | Added last 3 paragraphs |
| 4.0.0 | 5/31/07 | Title Page | Changed Title to include VendorChanged version to 4.0.0Added disclosure statement of AT&T |
| 4.0.0 | 5/31/07 | Entire Document | Replaced and reference to BST or BellSouth to AT&TReplaced BellSouth Logo with AT&T LogoCorrected the Table of Contents numbering.Replaced CLEC/WSP/Vendors with CLEC/Vendor/WSP\*Removed reference of TCIF9 and replaced with ELMS10 |
| 4.0.0 | 5/31/07 | Connect:Direct | Updated the ownership statement  |
| 4.0.0 | 5/31/07 | 1.1 Objective | Removed the list of documents previously used by AT&T |
| 4.0.0 | 5/31/07 | 9.1 Pre-Release Testing | Removed CLECs only |
| 4.0.0 | 5/31/07 | 1.5 Acronym Definitions | Removed reference to BBR and replaced with LOH |
| 4.0.0 | 5/31/07 | 3.3 Software Vendor Process (SVP) Manager | Removed BBRLO and replaced with LOH |
| 4.0.0 | 5/31/07 | 4.0 Testing Environment Overview | Removed verbiage around Traditional Test Environment |
| 4.0.0 | 5/31/07 | 4.1.1 LSRs Not Requiring Flow-Through to Provisioning or Billing | Clarified verbiage pertaining to LSR not requiring flow-through |
| 4.0.0 | 5/31/07 | 4.1.2 LSRs Requiring Flow-Through to Provisioning and/or Billing | Updated LSR Requiring flow-through to include BIRT instructions. |
| 4.0.0 | 5/31/07 | 7.0 Creating a Test Plan | Clarified information with in section |
| 4.0.0 | 5/31/07 | 8.0 New Entrant/New Product Testing Category | Clarified verbiage in section |
| 4.0.0 | 5/31/07 | 9.0 New Release Testing Category | Clarified verbiage in section |
| 4.0.0 | 5/31/07 | 10.0 Regression Testing Category | Clarified verbiage in section |
| 4.0.0 | 5/31/07 | Appendix A | Updated Websites |
| 5.0.0 | 06/18/09 | 1.1 About This Document | Added XML statement to explain reference to XML throughout document |
| 5.0.0 | 06/18/09 | 1.3 How to Use This Document | Added XML |
| 5.0.0 | 06/18/09 | 1.4 Testing Terminology | Removed XML from TAG File Testing |
| 5.0.0 | 06/18/09 | 3.1  | Corrected name to Wholesale Support Specialists and Hours |
| 5.0.0 | 06/18/09 | 3.2 CLEC Vendor Test Team – Test Phases | Added XML |
| 5.0.0 | 06/18/09 | 3.4  | Corrected Name to IDC |
| 5.0.0 | 06/18/09 | 4.0 Testing Environment Overview | Clarified verbiage in section and added XML |
| 5.0.0 | 06/18/09 | 4.1 LSR Order Flow/ Notification | Clarified verbiage in section |
| 5.0.0 | 06/18/09 | 4.2 Environment Availability | Clarified verbiage in section |
| 5.0.0 | 06/18/09 | 4.3 Test Case Catalog | Added XML |
| 5.0.0 | 06/18/09 | 4.5 CAVE release Implementation and Testing Timeline | Clarified verbiage in section |
| 5.0.0 | 06/18/09 | 5.0 Obtaining/Registering Digital Certificates | Remove XML reference to TAG |
| 5.0.0 | 06/18/09 | 8.2 New Product Testing | Added XML |
| 5.0.0 | 06/18/09 | 9.0 New Release Testing Category | Added XML |
| 5.0.0 | 06/18/09 | 10.0 Regression Testing Category | Added XML |
| 5.0.0 | 06/18/09 | 11.0 Electronic Data Interchange (EDI) Testing Phases | Corrected DTG to IDC |
| 5.0 | 06/18/09 | 14.0 Defect Management | Clarified verbiage in section |
| 5.0 | 06/18/09 | 16.2 Updating the Environment During Pre-Release Cycle | Clarified verbiage in section |
| 5.1.0 | 08/02/10 | Multiple | Removed all references to the retired TAG, EDI, and LENS applications, including the removal of sections 5 (Obtaining/Registering Digital Certificates) and 11 (EDI Testing Phases).Removed other language only applicable to those interfaces, like Connect:Direct, Interactive Agent, Map Migration, ANSI, IDC, Digital Certificates, etc.Changed LENS to LEX. Changed TAG to XML.Added mention of Verigate for pre-order testing.Removed acronyms from section 1.5 that were no longer present in the document and added acronyms that were used but not defined. |
| 5.2.0 | 08/30/10 | Multiple | Removed additional glossary terms no longer in use.Removed references and applicable sections to the retired SE applications – EDI, TAG, and LENS:* Removed Testing Terminology section.
* Removed new Entrant/New Product Testing section and changed to a placeholder for future updates.
* Removed outdated language from New Release Testing section.
* Removed Physical and Connectivity testing.
* Moved LEX Testing Phase to the Pre-Release Testing section.
* Removed Appendix A - Additional Resources. Appendix B is now Appendix A.
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| 5.3.0 | 11/30/2010 | Header/Footer | Updated branding and trademark. |
| 5.3.0 | 11/30/2010 | 3.1 Wholesale Support Specialist | Corrected hours of availability |
| 5.3.0 | 11/30/2010 | 4.0 Testing Environment Overview | Clarified unique company codes needed in CAVE. |
| 5.3.0 | 11/30/2010 | 5.0 Maintaining You Company Test Profile | Removed instructions to update TEST profile when CLEC’s test environment changes. |
| 5.3.0 | 11/30/2010 | 7.0 New Entrant/ New Product Testing Category | Removed placeholder and populated new sections. |
| 5.3.0 | 11/30/2010 | 11.1 Software/ Documentation Issues | Removed duplicate sentence regarding assignment of defect severity level. |
| 5.4.0 | 1/18/2011 | Multiple | Updated branding for 2011.Minor formatting corrections. |
| 5.4.0 | 1/18/2011 | 5.0 Maintaining Your Company Test Profile | Removed unnecessary details regarding the process for negotiating test date extensions. |
| 5.4.0 | 1/18/2011 | 6.0 Creating a Test Plan | Removed paragraph regarding the application and validity testing phases as these phases no longer relevant. |
| 5.4.0 | 1/18/2011 | 9.0 Regression Testing Category | Clarified purpose and timing of regression testing. |
| 5.4.0 | 1/18/2011 | 11.0 Defect Management | Changed Change Control Process to Change Management Process. |
| 5.4.0 | 1/18/2011 | 12.3 Production Release Implementation Recommendation | Deleted section. See the latest CMP documentation for info on CLEC feedback regarding implementation of the release. |
| 5.5.0 | 12/8/2014 | 4.5 CAVE Release Implementation and Testing Timeline | Change 4th bullet from “1 Week” to “2 Weeks Prior to Release Production Implementation” to synch TPP with CCP guide for change made 2/11/2008. |
| 5.6.0 | 10/20/2022 | Multiple | Updated URLs and documentation date |
| 5.6.1 | 11/21/2022 | Multiple | Updated URLs and documentation date |