

F. Test Results: xDSL Process Parity Evaluation (PO&P16)

1.0 Description

The objective of the xDSL Process Parity Evaluation was to review the pre-order, order, and provisioning processes and systems for wholesale operation and compare them with the corresponding processes and systems in BellSouth's retail operation. The review focused on the following areas:

- Pre-Order, Ordering, and Provisioning Processes and Systems
- Workflow definitions
- Workforce scheduling
- Facility administration
- Service activation
- Exception handling
- Completion notices

The evaluation consisted of targeted interviews of key process-owners along with structured reviews of process, system, and interface documentation. Structured walk-throughs, interviews with BellSouth work center personnel, and direct observation of personnel performing their daily work supplemented the process-owner interviews and documentation reviews.

2.0 Methodology

This section summarizes the test methodology.

2.1 Business Process Description

BellSouth's xDSL service offerings are categorized as either "Retail," "Resale," or "Wholesale." BellSouth sells its Consumer-Class Asymmetrical Digital Subscriber Line (ADSL) service to both Network Service Providers (NSPs) (i.e., Internet service providers, corporations, and universities) and BellSouth.net (BellSouth Internet Services), who subsequently resell the service using their own brand names. BellSouth.net is considered to provide retail xDSL service, while the NSPs are considered to provide resale xDSL service. BellSouth provides wholesale xDSL service by leasing Unbundled Network Element (UNE) loops to facilities-based Competitive Local Exchange Carriers (CLECs).

CLECS provide xDSL service to customers using their own xDSL equipment. BellSouth's Unbundled ADSL and High Bit-rate Digital Subscriber Line (HDSL) Loops (UALs and UHLs, respectively) are capable of supporting specific xDSL

services. CLECs may also lease Unbundled Copper Loops (UCLs) from BellSouth, which may or may not be capable of supporting xDSL service.

For purposes of this evaluation, the term “Retail” is used to describe the xDSL service offerings that BellSouth.net sells to end-user customers, such as consumers and small businesses. BellSouth.net’s Retail ADSL offering is sold under the FastAccessSM brand name. BellSouth.net outsources Retail pre-order and order processing functions to Client Logic, a third-party provider of call center services. The term “Resale” is used to indicate service sold by BellSouth to NSPs, who resell the service to end-user customers. The term “Wholesale” is used to describe the UNE xDSL capable loops that CLECs purchase to provide service to their end-user customers.

xDSL Pre-Order Process

Prior to submission of a firm order for an xDSL loop(s), a service provider must first determine if the line(s) at a particular service address is qualified to support xDSL service. The loop qualification process for xDSL service is in addition to the pre-order activities required to gather and identify information required to submit an order. Pre-order process steps required for all order types such as Address Validation, View Customer Service Record, Calculate Due Date, etc. were not evaluated in this test.

Retail Pre-Order Process

Retail pre-order activity begins with the execution of a loop qualification query via the Loop Qualification System (LQS), also known as “Loopy.” LQS provides feedback on the existence of xDSL qualified loops, supplying either an “available,” “planned” or “not qualified” response with associated reason codes. LQS response information is derived from the Loop Engineering Assignment Data (LEAD) database. This database contains a snapshot (executed on a monthly basis) of the information contained within the Loop Facilities and Assignment Control System (LFACS).

Loop Make-Up information is not required for retail xDSL pre-ordering. Only ADSL service is available for retail customers and the ADSL loop make-up information is considered in the generation of the LQS response to pre-order service inquiries.

Wholesale Pre-Order Process

Wholesale service providers, who chose to perform their own loop qualification may execute mechanized loop qualification queries via the same LQS system used for retail loop qualification. In addition, UNE providers may obtain more comprehensive loop characteristic data via the Loop Make-Up (LMU) process. Information returned in response to an LMU request includes the composition of

loop material (i.e., copper or fiber; the existence, location, and type of equipment on the loop [e.g., digital loop carrier, feeder/distribution interfaces, bridge taps, load coils]; loop length; wire gauge; and electrical parameters).

UNE LMU requests may be performed manually or electronically. Manual LMU requests, submitted via e-mail or Fax, are handled by the CRSG. Electronic LMU requests, submitted via the LENS, TAG, or RoboTAG interfaces, are fed into LFACS. LMU pre-order inquiries (both manual and electronic) may be executed on working facilities or spare facilities. In addition, CLECs can request a reservation of spare facilities in conjunction with the LMU request. This pre-order is referred to as an LMU with Facility Reservation Number (FRN). Reservations are good for up to four days.

CLECs that do not wish to perform their own bop qualification or that want BellSouth to perform the loop qualification must follow a manual Service Inquiry (SI) and Local Service Request (LSR) submission process. To execute this manual process, the CLEC e-mails or faxes the SI form and the completed LSR to the Complex Resale Service Group (CRSG). The CRSG forwards the SI to the Service Advocacy Center (SAC). The SAC determines whether or not the desired loop is qualified for the xDSL service requested and returns a qualified or not qualified response to the CRSG, which in turn notifies the CLEC of the result.

xDSL Ordering Process

Retail Ordering Process

Assuming that a qualified loop exists for the line queried/tested, Retail ADSL service ordering begins when a retail customer's order for end-to-end ADSL service is entered into one of three Web front-end systems (Consumer, Small Business and Fast Access Sales and Service (FASS) [used by Client Logic]). The service order flows through to the Service Order Entry Gateway (SOEG) system and then into the Service Order Control System (SOCS). Service orders flow automatically through a variety of systems unless errors are present, in which case they fall out for manual processing. The Digital Subscriber Group (DSG) provides support for NSP and retail (BellSouth.net) ADSL orders that have fallen out of the mechanized process due to errors or exceptions. Orders that fall out in the DSG for manual processing are entered into the Broadband Administrative Support System (BASS) within 24 hours of receipt. Once cleared of errors, these orders flow to SOCS and enter the provisioning process.

Wholesale Ordering Process

Orders for wholesale xDSL service may be requested via a manual or automated process. If, in the pre-order function, the CLEC requested that BLS qualify the



loop and submitted a manual SI to the CRSG, and the CLEC receives confirmation that a given loop is qualified to support ADSL service, the CRSG faxes the LSR to the Local Carrier Service Center (LCSC) for review and entry into BellSouth's Local Order Number (LON) system for tracking. If additional information is required from the CLEC, BellSouth faxes a Clarification to the CLEC. Once BellSouth deems that the LSR is error-free, address and customer record information are then validated using the ORION, Regional Street Address Guide (RSAG), and Business Office Customer Record Information System (BOCRIS) systems, respectively. The LSR information is subsequently entered into the Exchange Access Control and Tracking (EXACT) system, assigned a service order number, and submitted to the SOCS system for processing. Firm Order Confirmations (FOCs) or Clarifications for manual orders are faxed to CLECs within a targeted 48 hour interval.

CLEC xDSL orders may also be submitted electronically through the TAG, LENS, or EDI interfaces. The xDSL capable loop orders are processed like all other requests for Unbundled Network Element (UNE) Loops. If the order is error free, it flows to SOCS and enters the provisioning process.

The Atlanta Local Carrier Service Center (LCSC) handles xDSL orders that fall out of the mechanized process with errors. The Provisioning Analyst Work Station (PAWS) system is used for exception handling of xDSL orders. The Service Representatives (SR) log on to PAWS and can view the queue of pending xDSL orders with errors. The SR requests the next work package from PAWS and reviews the Request for Manual Assistance (RMA). The representative resolves the exception using their knowledge of order processing and available systems (DOE, SONGS, SOCS, RSAG, ATLAS, etc.) Following correction of the error, the SR marks the exception as "Complete" or "Resolved." Once the order exception has been resolved, the order enters the provisioning process.

xDSL Provisioning Process

Retail and Wholesale Process

The provisioning of retail and wholesale orders is supported by the DSG, Address Facility Inventory Group (AFIG), Circuit Provisioning Group (CPG), and various Work Management Centers (WMC) and Central Offices (CO). Wholesale order provisioning activity is also supported by the LCSC and UNE Centers.

The AFIG and CPG support xDSL provisioning primarily by resolving order errors and assigning cable pairs. The AFIG and CPG do not distinguish between Retail, Resale, and UNE orders. The UNE Centers also work with the AFIG, CPG, and LCSC to facilitate provisioning by identifying orders requiring cable pair assignments and engineering/design work. The DSG troubleshoots xDSL



devices (e.g., DSLAMs), handles calls from NSPs and Bellsouth.net, and also resolves order errors. The WMC assigns work orders to service technicians in the field who provide installation and turn-up of xDSL orders. In addition to testing copper loops for load coils, loss, etc., the CO completes the facility based provisioning and turn-up of xDSL orders.

2.2 Scenarios

Scenarios were not applicable to this test.

2.3 Test Targets & Measures

The test target was BellSouth's xDSL Pre-order, Order, and Provisioning processes. Processes, sub-processes, and evaluation measures, are summarized in the following table. The last column "Test Cross-Reference" indicates where the particular measures are addressed in section 3.1 "Results & Analysis."

Table IV-6.1: Test Target Cross-Reference

| Process | Sub-Process | Evaluation Measure | Test Cross-Reference |
|-------------------|----------------------------|---|--------------------------------------|
| xDSL Pre-order | xDSL Service Inquiry | Non-discriminatory processes between wholesale and retail | PO&P-16-1-1 PO&P-16-1-6 PO&P-16-1-11 |
| | xDSL Loop Qualification | Non-discriminatory processes between wholesale and retail | PO&P-16-1-2 PO&P-16-1-7 PO&P-16-1-12 |
| xDSL Ordering | xDSL Order Submission | Non-discriminatory processes between wholesale and retail | PO&P-16-1-3 PO&P-16-1-8 PO&P-16-1-13 |
| | xDSL Order Entry | Non-discriminatory processes between wholesale and retail | PO&P-16-1-3 PO&P-16-1-8 PO&P-16-1-13 |
| xDSL Provisioning | xDSL Workflow Management | Non-discriminatory processes between wholesale and retail | PO&P-16-1-14 PO&P-16-1-15 |
| | xDSL Workforce Management | Non-discriminatory processes between wholesale and retail | PO&P-16-1-4 PO&P-16-1-5 |
| | xDSL Facilities Assignment | Non-discriminatory processes between wholesale and retail | PO&P-16-1-4 PO&P-16-1-9 PO&P-16-1-14 |

| Process | Sub-Process | Evaluation Measure | Test Cross-Reference |
|---------|-------------------------|---|---------------------------------------|
| | xDSL Service Activation | Non-discriminatory processes between wholesale and retail | PO&P-16-1-5 PO&P-16-1-10 PO&P-16-1-15 |

2.4 Data Sources

The data collected for the test are summarized in the table below.

Table IV-6.2: Data Sources for xDSL Process Parity Evaluation

| Document | File Name | Location in Work Papers | Source |
|--|--------------------|-------------------------|--------|
| BellSouth Practices/BellSouth Telecommunications Standard-Unbundled Local Loops (ULL), Draft Issue 3/18/1999 | No Electronic Copy | PO&P-15-A-2 | BLS |
| MARCH System Reference, Issue 1, March, 2000 | No Electronic Copy | PO&P-15-A-3 | BLS |
| HairPIN and SIDEdoor, Issue 1, January, 2000 | No Electronic Copy | PO&P-15-A-4 | BLS |
| Turn-Up Non-Designed Combined Inside and Outside Conversions, Issue 2a, March, 2000 | No Electronic Copy | PO&P-15-A-5 | BLS |
| SOCS – UNE, Issue 1, July, 1999 | No Electronic Copy | PO&P-15-A-6 | BLS |
| UNE Work Types, Issue 1, March, 1997 | No Electronic Copy | PO&P-15-A-7 | BLS |
| UNE Center Provisioning Process for Stand-Alone Interim Local Number Portability, Issue 2, March, 2000 | No Electronic Copy | PO&P-15-A-8 | BLS |
| UNE – 2W Designed Voice Grade Port and Voice Grade Loop, Issue 1a, February 2000. | No Electronic Copy | PO&P-15-A-9 | BLS |
| Unbundled Network Elements (UNE) Reference, Products, Systems, and Links, Issue 4d, March, 2000 | No Electronic Copy | PO&P-15-A-10 | BLS |
| [miscellaneous information on “wholesale” purchasing from BellSouth] | No Electronic Copy | PO&P-15-A-11 | BLS |

| Document | File Name | Location in Work Papers | Source |
|--|--------------------|-------------------------|--------|
| UNEC, CLEC Collocation (M&Ps) | No Electronic Copy | PO&P-15-A-12 | BLS |
| UNE—2W Voice Grade Port and Voice Grade Loop Combination Services, Issue 1a, February, 2000 | No Electronic Copy | PO&P-15-A-13 | BLS |
| UNEC/CLEC Timing for Acceptance, MARCH input, Jeopardy, MFC and Completions Policy, Issue 1a, December, 1999 | No Electronic Copy | PO&P-15-A-14 | BLS |
| CCSS Procedures, Issue 2, January, 2000 | No Electronic Copy | PO&P-15-A-15 | BLS |
| AIN—LNP Unbundled Network Elements, Issue 1a, December, 1999 | No Electronic Copy | PO&P-15-A-16 | BLS |
| Unbundled Network Element Combination, Issue 2, February, 2000 | No Electronic Copy | PO&P-15-A-17 | BLS |
| DSG Failed Provisioning Report | No Electronic Copy | PO&P-15-A-18 | BLS |
| DSG Failed Validation Report | No Electronic Copy | PO&P-15-A-19 | BLS |
| Jeopardy Codes/Missed Function Codes and SOCS Missed Appointment Codes, Issue 1, March, 2000 | No Electronic Copy | PO&P-15-A-20 | BLS |
| Loop Make-Up Service Order Exhibits, 2/23/2000 | No Electronic Copy | PO&P-15-A-21 | BLS |
| CLEC Requirements for Unbundled Loops, Issue 3c, October, 1999 | No Electronic Copy | PO&P-15-B-32 | BLS |
| DS3, Channelized DS1, and STS-1, Issue 1, February, 2000 | No Electronic Copy | PO&P-15-B-33 | BLS |
| Calendar Events, Issue 1, December, 1999 | No Electronic Copy | PO&P-15-B-34 | BLS |
| LMOS Codes and Procedures, Issue 1a, August, 1999 | No Electronic Copy | PO&P-15-B-40 | BLS |

| Document | File Name | Location in Work Papers | Source |
|---|--------------------|-------------------------|--------|
| Screening—Non-Designed Provisioning, Issue 2, February, 2000 | No Electronic Copy | PO&P-15-B-45 | BLS |
| Screening—Designed, Issue 2, March, 2000 | No Electronic Copy | PO&P-15-B-46 | BLS |
| Past Due Service Order handling, CLEC DD miss., Issue 1, March, 2000 | No Electronic Copy | PO&P-15-B-48 | BLS |
| Past Due Service Order Due to PF, Issue 1, March, 2000 | No Electronic Copy | PO&P-15-B-49 | BLS |
| Past Due Service Order due to BellSouth, Not PF, Issue 1, March, 2000 | No Electronic Copy | PO&P-15-B-50 | BLS |
| Non-Switched, Unbundled Network Element Combinations, Issue 1e, March, 2000 | No Electronic Copy | PO&P-15-B-51 | BLS |
| Email and BellSouth ADSL Service (Tariffed) Documents | No Electronic Copy | PO&P-15-B-53 | BLS |
| Georgia ADSL-Equipped Wire Centers, 3/09/2000 | No Electronic Copy | PO&P-15-B-54 | BLS |
| BST ADSL Service-Loop Qualification System, Process Flow Diagram | No Electronic Copy | PO&P-15-B-55 | BLS |
| Small Business FastAccess DSL Service – Online Ordering Screen Documentation, Issue 1, 12/13/1999 | No Electronic Copy | PO&P-15-B-56 | BLS |
| Sales and Service Section 1: Scripts for Handling General Inquiries, 2/07/00 | No Electronic Copy | PO&P-15-B-57 | BLS |
| Unbundled Local Loop – Technical Specifications, February, 2000 | No Electronic Copy | PO&P-15-B-58 | BLS |
| FastAccess Initial Training, Putting It All Together Sales and Service Customer Contacts | No Electronic Copy | PO&P-15-B-59 | BLS |

| Document | File Name | Location in Work Papers | Source |
|--|--------------------|-------------------------|--------|
| Work Management Center Dispatch Procedures for Installation and Maintenance of ADSL Service | No Electronic Copy | PO&P-15-B-60 | BLS |
| Workload Distribution, 7/01/00 | No Electronic Copy | PO&P-15-B-61 | BLS |
| ADSL Loop Qualification System (LQS) 7/10/00 | No Electronic Copy | PO&P-15-B-62 | BLS |
| LSR Volume Report by Datasource for 3/1/00 to 3/31/00 | No Electronic Copy | PO&P-15-B-67 | BLS |
| BRITE System Reports for Thursday, April 6, 2000 | No Electronic Copy | PO&P-15-B-68 | BLS |
| CRSG On Line Job Aid UNE New: Responses to SIs, Clarifications | No Electronic Copy | PO&P-15-B-69 | BLS |
| BASS User Guide | No Electronic Copy | PO&P-15-C-1 | BLS |
| NMS User Guide | No Electronic Copy | PO&P-15-C-2 | BLS |
| Forecasting Spreadsheet for the LCSC | No Electronic Copy | PO&P-15-C-3 | BLS |
| Unbundled Local Loops, CO Job Aides | No Electronic Copy | PO&P-15-C-4 | BLS |
| Circuit Provisioning Methods and Procedures for Unbundled Hi-Capacity Services (ADSL, HDSL, DS1, DS3, UIT, UC, Dark Fier) from the CPG | No Electronic Copy | PO&P-15-C-5 | BLS |
| SAC UNE Job Aid | No Electronic Copy | PO&P-15-C-11 | BLS |
| UNE ADSL/HDSL Without Modification, Network and Carrier Services | Resale.doc | PO&P-15-C-16 | BLS |
| N&CS Forecasting Process | Totals.gif | PO&P-15-C-17 | BLS |
| BellSouth FASS Overview | No Electronic Copy | PO&P-15-C-18 | BLS |
| ENCORE User Requirements for EIO Support of the Processing of UNE ADSL, HDSL and UCL | No Electronic Copy | PO&P-15-C-21 | BLS |

| Document | File Name | Location in Work Papers | Source |
|--|--------------------|-------------------------|--------|
| ENCORE User Requirements for Mechanization of Loop Make-Up for CLEC xDSLs | No Electronic Copy | PO&P-15-C-22 | BLS |
| NO.5ESS Integrated Digital Carrier Unit TIRKS Inventory & Design Methods & Procedures, Issue A, April 1993 | No Electronic Copy | PO&P-15-C-23 | BLS |
| Subscriber Carrier Module SLC96 (SMS) DMS 100TIRKS Inventory AND Provisioning Methods AND Procedures | No Electronic Copy | PO&P-15-C-24 | BLS |
| Welcome to the Atlanta Local Carrier Service Center, March, 2000 | No Electronic Copy | PO&P-15-C-25 | BLS |
| UNE Center Cut Sheet | No Electronic Copy | PO&P-15-D-1 | BLS |
| KPMG BellSouth Atlanta UNE Center Provisioning Meeting, 5/9/00 | No Electronic Copy | PO&P-15-D-2 | BLS |
| UNE 4 Wire Digital ISDN PRI Port/Loop | No Electronic Copy | PO&P-15-D-3 | BLS |
| Unbundled Copper Loop, CLEC Information Package, February 24, 2000 | No Electronic Copy | PO&P-15-D-4 | BLS |
| BellSouth Unbundled ADSL.HDSL Capable Loops, CLEC Information Package, February 24, 2000 | No Electronic Copy | PO&P-15-D-5 | BLS |
| UNEC Methods and Procedures for Unbundled Loop Modification, 3/13/00 | No Electronic Copy | PO&P-15-D-6 | BLS |
| ADSL NMS Login, 11/08/99 | No Electronic Copy | PO&P-15-D-7 | BLS |
| UNE Loop Make-Up, Methods and Procedures (DRAFT) 3/12/2000 | No Electronic Copy | PO&P-15-D-9 | BLS |
| Marketing Sales Package, Unbundled Loop Make-Up | No Electronic Copy | PO&P-15-D-10 | BLS |
| Loop Make-Up Implementation Guide | No Electronic Copy | PO&P-15-D-11 | BLS |

| Document | File Name | Location in Work Papers | Source |
|---|--------------------|-------------------------|--------|
| Address and Facility Inventory Group Unbundled Network Elements Methods and Procedures Loop Make Up 319 Remand | No Electronic Copy | PO&P-15-D-12 | BLS |
| BLS Unbundled Digital Loop – Service Description, Characteristics, etc – from BLS Interconnection services Web site, 3/8/2000 | No Electronic Copy | PO&P-15-D-13 | BLS |
| Mpower and BellSouth, CRSG Review, March 23, 2000 | No Electronic Copy | PO&P-15-D-14 | BLS |
| UNEC Methods and Procedures for Unbundled ADSL Capable Loops, Unbundled HDSL Capable Loops, and Unbundled Copper Loops | No Electronic Copy | PO&P-15-D-15 | BLS |
| UNEC Methods and Procedures for Unbundled Loop Modification | No Electronic Copy | PO&P-15-D-16 | BLS |
| UNE ADSL/HDSL Compatible Loops – General Information | No Electronic Copy | PO&P-15-D-17 | BLS |
| UNE – ADSL/HDSL Without Modification | No Electronic Copy | PO&P-15-D-18 | BLS |
| BellSouth DSL Family of Products, BellSouth Interconnection Services | No Electronic Copy | PO&P-15-D-19 | BLS |
| BellSouth ADSL Service (Interconnection Web site document) | No Electronic Copy | PO&P-15-D-20 | BLS |
| BellSouth ADSL Service – Rates and Charges | No Electronic Copy | PO&P-15-D-25 | BLS |
| Consumer-Class ADSL Systems and Interface | No Electronic Copy | PO&P-15-D-26 | BLS |
| BellSouth Consumer-Class ADSL Service Activation Process CPE Installation by BST Technician | No Electronic Copy | PO&P-15-D-27 | BLS |

| Document | File Name | Location in Work Papers | Source |
|---|--------------------|-------------------------|--------|
| BellSouth Consumer-Class ADSL Service Activation Process CPE Installation by NSP/ISP Technician | No Electronic Copy | PO&P-15-D-28 | BLS |
| BellSouth Consumer-Class ADSL Provisioning Timeline | No Electronic Copy | PO&P-15-D-29 | BLS |
| BellSouth Business-Class ADSL Service Activation Process Flow, 07/16/99 | No Electronic Copy | PO&P-15-D-30 | BLS |
| High Speed Data Service Order Entry Gateway System (SOEG) | No Electronic Copy | PO&P-15-D-31 | BLS |
| Fast Access Training: Pre-Sale Process | No Electronic Copy | PO&P-15-D-32 | BLS |
| Unbundled ADSL, HDSL and UCL Loop Job Aid | No Electronic Copy | PO&P-15-D-34 | BLS |
| AFIG/ SOC Error Report | No Electronic Copy | PO&P-15-D-35 | BLS |
| Unbundled Local Loop Technical Specifications, April, 2000 | No Electronic Copy | PO&P-15-D-38 | BLS |
| KPMG Draft Exception 128 with BellSouth response | No Electronic Copy | PO&P-15-D-39 | BLS |
| KPMG Draft Exception 129 with BellSouth response | No Electronic Copy | PO&P-15-D-40 | BLS |
| Works Management Center Interview Summary with BellSouth feedback | No Electronic Copy | PO&P-15-D-42 | BLS |
| UNE Center (Birmingham, AL) Interview Summary with BellSouth feedback. | No Electronic Copy | PO&P-15-D-43 | BLS |
| SAC Interview Summary with BellSouth feedback | No Electronic Copy | PO&P-15-D-44 | BLS |
| LCSC (Birmingham, AL) Interview Summary with BellSouth feedback | No Electronic Copy | PO&P-15-D-45 | BLS |
| LCSC (Atlanta, GA) Interview Summary with BellSouth feedback | No Electronic Copy | PO&P-15-D-46 | BLS |

| Document | File Name | Location in Work Papers | Source |
|--|--------------------|-------------------------|--------|
| DSG Interview Summary with BellSouth response | No Electronic Copy | PO&P-15-D-47 | BLS |
| CRSG Interview Summary with BellSouth response | No Electronic Copy | PO&P-15-D-48 | BLS |
| CPG Interview Summary with BellSouth response | No Electronic Copy | PO&P-15-D-49 | BLS |
| CO Interview Summary with BellSouth response | No Electronic Copy | PO&P-15-D-50 | BLS |
| AFIG Interview Summary with BellSouth response | No Electronic Copy | PO&P-15-E-1 | BLS |
| UNE Center (Atlanta, GA) Interview Summary with BellSouth response | No Electronic Copy | PO&P-15-E-2 | BLS |
| Exception 107 | No Electronic Copy | PO&P-15-E-3 | BLS |
| BellSouth response to Exception 107 | No Electronic Copy | PO&P-15-E-4 | BLS |
| BellSouth amended response to Exception 107 | No Electronic Copy | PO&P-15-E-5 | BLS |
| Exception 108 | No Electronic Copy | PO&P-15-E-6 | BLS |
| BellSouth response to Exception 108 | No Electronic Copy | PO&P-15-E-7 | BLS |
| Loop Qualification System (LQS) DLEC/CLEC Job Aid, Issue 1, October 16, 2000 | No Electronic Copy | PO&P-15-E-10 | BLS |
| BellSouth Unbundled ADSL/HDSL Compatible Loops, ADSL Loop and HDSL Loop CLEC Information Package, 10/13/00 | No Electronic Copy | PO&P-15-E-11 | BLS |
| PAWS – Provisioning Analyst Work Station, Network Services, Customer Services, Issue 2, 01/01 | No Electronic Copy | PO&P-15-E-12 | BLS |
| BellSouth Interconnection Services, Carrier Notification SN91082201 | No Electronic Copy | PO&P-15-E-13 | BLS |

| Document | File Name | Location in Work Papers | Source |
|---|--------------------|-------------------------|--------|
| BellSouth Products & Services Interval Guide – 4B – Unbundled Network Elements, pages 31-38 | No Electronic Copy | PO&P-15-E-14 | BLS |
| BellSouth Loop Make-up (LMU) CLEC Information Package, Version 3, October 23, 2000 | No Electronic Copy | PO&P-15-E-15 | BLS |
| BellSouth Pre-Ordering and Ordering Overview Guide, 3/31/00 | No Electronic Copy | PO&P-15-E-16 | BLS |
| Loop Make-up and Electronic Ordering of CLEC xDSL UNE, 6/14/00 | No Electronic Copy | PO&P-15-E-17 | BLS |
| High Speed Data Service Order Entry Gateway System (SOEG), Issue 1.0A, 10/22/99 | No Electronic Copy | PO&P-15-E-18 | BLS |
| BellSouth Unbundled ADSL/HDSL/UCL Compatible Loops Account Team Information | No Electronic Copy | PO&P-15-E-19 | BLS |
| LCSC (Atlanta, GA) Second Interview Summary | No Electronic Copy | PO&P-15-E-21 | BLS |

2.4.1 Data Generation/Volumes

This test relied on interviews with BellSouth personnel, documentation reviews, and structured walk-throughs of BellSouth work centers.

2.5 Evaluation Methods

The evaluation of xDSL Process Parity began with a review of xDSL pre-order, order, and provisioning process documentation. KCI identified relevant systems and interfaces and conducted interviews with center personnel, including process owners and staff. Structured center walk-throughs and direct observation of personnel performing their daily work supplemented the planned test interviews and document reviews. Physical systems and communications environments were inspected and process models were developed to assess the parity between wholesale and retail pre-order, order, and provisioning processes.

2.6 Analysis Methods

The xDSL Process Parity Evaluation included a checklist of evaluation measures developed by KCI during the preparation of test activities for the BellSouth - Georgia OSS Evaluation. These evaluation measures provided the framework of norms, standards, and guidelines for the xDSL Process Parity Evaluation.

3.0 Results Summary

This section identifies the discrete evaluation criteria and test results.

3.1 Results & Analysis

The results of this test are presented in the table below. Definitions of evaluation criteria, possible results, and exceptions are provided in Section II.

Table IV-6.3: POP16 Evaluation Criteria and Results

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
|----------------------|---|-----------|---|
| PO&P-16-1-1 | Documented procedures for the xDSL Pre-Order Loop Qualification process are consistent, repeatable, and non-discriminatory between retail and wholesale | Satisfied | KCI's evaluation of BLS documented procedures revealed that both retail and wholesale (UNE) customers may access BellSouth's Loop Qualification System (LQS) to determine if an existing telephone number is served by a BLS loop capable of supporting BLS ADSL service. BLS Retail and Resale LQS access is automated. While wholesale (UNE) access initially involved a manual process, representing a discriminatory difference between the Retail and UNE processes, BLS subsequently made the LQS system available to CLECs via an electronic interface ¹ . See Exception 107 for additional information on this issue. Exception 107 is closed. BLS's <i>Loop Qualification System (LQS) DLEC/CLEC Job Aid, Issue 1</i> ² provides LQS access information for wholesale (UNE) customers (CLECs). The document outlines instructions for |

¹ KCI did not conduct feature-function testing associated with this capability.

² The *Loop Qualification System (LQS) DLEC/CLEC Job Aid, Issue 1* was posted to the BLS Interconnection Web site on October 16, 2000.

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
|----------------------|---------------------|--------|---|
| | | | <p>accessing, installing and utilizing the Web-based LQS application, and provides information on the possible results returned for queries.</p> <p>The document entitled <i>Small Business FastAccess DSL Service—Online Ordering Screen Documentation</i> outlines a process through which retail and resale customers may access LQS via a Web-based application to determine if a specific phone number qualifies for BLS FastAccessSM DSL service (i.e., whether a loop is available to support ADSL service). The documents entitled <i>BST ADSL Service-Loop Qualification System</i> and <i>BellSouth ADSL Service (Tariffed)</i> reference several methods through which NSPs, upon written request to BLS, may access LQS. Client Logic has access to LQS through the FASS system.</p> |

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
|----------------------|---|-----------|---|
| PO&P-16-1-2 | Documented procedures for the xDSL Pre-Order Loop Make-Up (LMU) process are consistent, repeatable, and non-discriminatory between retail and wholesale | Satisfied | <p>Loop Make-Up information is not required for retail xDSL pre-ordering. Only ADSL service is available for retail customers and the ADSL loop make-up information is considered in the generation of the LQS response to pre-order service inquiries.</p> <p>During KCI's initial evaluation, wholesale (UNE) customers could obtain loop make-up information only through a manual process. The manual process for determining the availability and specific characteristics of an ADSL capable loop, is described in the <i>ADSL/HDSL Capable Loop – CLEC Information Package</i>, dated February 24, 2000.</p> <p>As of November 18, 2000, wholesale xDSL customers gained electronic access to BLS's mechanized LMU service. In addition to the LQS, the data returned by the LMU service provides the CLEC with the underlying loop qualification information. The document <i>BellSouth Loop Makeup (LMU) CLEC Information Package</i> provides specific instructions for UNE customer use of BLS's mechanized LMU service.</p> <p>See Exception 107 for additional information on this issue. Exception 107 is closed.</p> |
| PO&P-16-1-3 | Documented procedures for xDSL Order Submission and Order Entry are consistent, repeatable, and non-discriminatory between retail and wholesale | Satisfied | <p>During KCI's initial evaluation, wholesale xDSL order submission process was entirely manual, as outlined in the <i>Unbundled ADSL, HDSL, & UCL Loop Job Aid</i>. Retail Order Submission is supported via on-line mechanized process. The document entitled <i>Small Business FastAccess DSL Service-Online Ordering Screen Documentation</i> outlines the procedures used by Client Logic to submit retail ADSL orders taken on</p> |

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| | | | <p>behalf of BLS. Therefore, KCI's initial testing revealed that BLS's documented procedures for xDSL Order Submission were discriminatory between retail and wholesale. As a result, KCI issued Exception 108.</p> <p>In response to Exception 108, on February 12, 2001 BLS implemented a system change to provide all CLECs the ability to order xDSL capable loops electronically through the TAG, LENS, and EDI interfaces.</p> <p>The <i>BellSouth Business Rules for Local Ordering (BBR-LO)</i>, Issue 9K and <i>Encore User Requirements for EIO Support of the Processing of UNE ADSL, HDSL, and UCL</i>, ENC7794.doc, Version 5.0, document procedures for use of BLS's mechanized system for UNE order submission. KCI found that the BBR-LO was not updated to incorporate changes introduced by the mechanization of the wholesale xDSL ordering process. However, to support the CLECs as they implement electronic xDSL order submission, BLS Account Teams provide additional clarifying information as outlined in the document <i>BellSouth Unbundled ADSL/HDSL/UCL Compatible Loops Account Team Information, ADSL/HDSL/UCL Loop Electronic Ordering</i>. Based on a review of the documentation³, the newly available electronic ordering functionality is adequate to support CLEC order submission requirements and is non-discriminatory to retail.</p> <p>See Exception 108 for additional information on this issue. KCI has recommended closure of Exception 108 to the GPSC.</p> |

³ KCI did not conduct feature-function testing for electronically submitted xDSL orders.

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| PO&P-16-1-4 | Documented procedures for xDSL Facility Assignment are consistent, repeatable, and non-discriminatory between retail and wholesale | Satisfied | <p>The AFIG and CPG maintain documented procedures for xDSL Facility Assignment that do not distinguish/differentiate between Retail, Resale, and UNE orders.</p> <p>The AFIG's <i>Address and Facility Inventory Group Unbundled Network Elements Methods and Procedures--Loop Makeup 319 Remand</i> document outlines the AFIG's role in entering loop make-up information into the LFACS system.</p> <p>The documents entitled <i>NO.5ESS Integrated Digital Carrier Unit TIRKS Inventory & Design Methods & Procedures</i> and <i>Subscriber Carrier Module SLC96 (SMS) DMS 100TIRKS Inventory AND Provisioning Methods AND Procedures</i> outline the CPG's role in building TIRKS inventory records for two types of circuits: hairpin and side door. No distinction is made among Retail, Resale, and Wholesale (UNE) orders.</p> |
| PO&P-16-1-5 | Documented procedures for xDSL Service Activation are consistent, repeatable, and non-discriminatory between retail and wholesale | Satisfied | <p>The DSG, WMC, COs, and the UNE Centers maintain documented procedures for xDSL Service Activation.</p> <p>The DSG's service activation procedures, which include confirming orders, tracking due dates, and trouble shooting DSLAMs for retail and resale orders, are referenced in the <i>BellSouth Business-Class ADSL Service Activation Process Flow</i>.</p> <p>The WMC supports service activation primarily by assigning orders to Service Technicians. The procedures for doing so are referenced in the document entitled <i>Work Management Center Dispatch Procedures for Installation and Maintenance of ADSL Service</i>.</p> <p>BLS COs support service activation</p> |

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| | | | <p>procedures by completing facility-based provisioning and turn-up on xDSL orders, and by testing copper loops for load coils. CO provisioning activities do not differentiate between Retail and Wholesale (UNE) orders.</p> <p>The <i>UNEC Methods and Procedures for Unbundled Loop Modification</i> and <i>UNEC Methods and Procedures for Unbundled ADSL Capable Loops and Unbundled Copper Loops</i> documents outline the UNE Centers' roles in wholesale (UNE) service activation.</p> |
| PO&P-16-1-6 | Systems in the Pre-Order loop qualification process are non-discriminatory between retail and wholesale | Satisfied | <p>During KCI's initial evaluation, wholesale (UNE) customers could obtain loop make-up information only through a manual process. As a result, KCI issued Exception 107.</p> <p>In response to Exception 107, BLS made the LQS system available for wholesale use and posted CLEC LQS access information on the Interconnection Web site on October 16, 2000 in the document titled <i>Loop Qualification System (LQS) DLEC/CLEC Job Aid, Issue 1</i>.</p> <p>Loop qualification information in support of Retail service is obtained from the LQS system via an automated query. LQS contains information derived from the LEAD database, updated monthly with data from LFACS.</p> <p>Retail and wholesale requests via LQS for loop qualification information are processed by the same systems and are non-discriminatory between retail and wholesale. For additional information, refer to Exception 107, which is closed.</p> |
| PO&P-16-1-7 | Systems in the Pre-Order Loop Make-Up (LMU) process are non-discriminatory between | Satisfied | <p>Loop Make-Up information is not required for retail xDSL pre-ordering. Only ADSL service is available for retail customers and the ADSL loop</p> |

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| | retail and wholesale | | <p>make-up information is considered in the generation of the LQS response to pre-order service inquiries.</p> <p>During KCI's initial evaluation, wholesale customers could obtain loop make-up information only through a manual process. No wholesale pre-order systems were available for evaluation.</p> <p>As of November 18, 2000, wholesale xDSL customers gained electronic access to BLS's mechanized LMU system. In addition to the LQS, the data returned by the LMU system provides the CLEC with underlying loop qualification information. The document <i>BellSouth Loop Makeup (LMU) CLEC Information Package</i> provides specific instructions for wholesale customer use of BLS's mechanized LMU system.</p> |
| PO&P-16-1-8 | Systems in the Order Submission and Order Entry processes are non-discriminatory between retail and wholesale | Satisfied | <p>KCI's initial testing found that retail order submission is mechanized while Wholesale order submission processes were entirely manual and therefore, discriminatory. As a result, KCI issued Exception 108.</p> <p>Retail orders for xDSL service are submitted via electronic systems. Client Logic submits retail orders through via the FASS system, and resale orders are submitted electronically, into SOEG. In contrast, processes in place at the time of initial testing revealed that the CRSG submitted wholesale (UNE) orders to the LCSC via fax machines.</p> <p>In response to Exception 108, on February 12, 2001 BLS implemented a system change to provide all CLECs the ability to order xDSL capable loops electronically through the TAG, LENS, and EDI interfaces.</p> <p>Based on a review of the</p> |

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| | | | documentation (see comments in PO&P-16-1-3) ⁴ , the newly available electronic ordering functionality is adequate to support CLEC order submission requirements and is non-discriminatory to retail. See Exception 108 for additional information on this issue. KCI has recommended closure of Exception 108 to the GPSC. |
| PO&P-16-1-9 | Systems in the Facility assignment process are non-discriminatory between retail and wholesale | Satisfied | Systems in the Facility assignment process are non-discriminatory between retail and wholesale. The AFIG and CPG do not distinguish/differentiate between retail and wholesale orders. The AFIG uses PAWS for assigning and managing work and for receiving Requests for Manual Assistance (RMAs) from the Hands-off Assignment Logic (HAL) system. The AFIG uses LFACS for determining the cause of RMAs and also uses SOCS, TANDEM, MOBI, and Computer System for Mainframe Operations (COSMOS) for correcting errors on service orders. The CPG uses SOCS to retrieve information used to resolve order errors. The CPG also uses the Trunk Inventory Record Keeping System (TIRKS) for generating lists of erroneous orders to be worked. |
| PO&P-16-1-10 | Systems in the Service Activation process are consistent between retail and wholesale | Satisfied | Systems in the Service Activation process are consistent between retail and wholesale. The WMC and COs do not distinguish between retail and wholesale orders. The UNECs and DSG support UNE and retail/resale provisioning respectively. ADSL-related work is dispatched by |

⁴ KCI did not conduct feature-function testing for electronically submitted xDSL orders.

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| | | | <p>the WMC via the AELERA database. LMOS is also used to distribute daily work assignments to Service Technicians.</p> <p>The UNEC uses the Work Force Administration (WFA) system for receiving CLEC UNE orders and for loading orders to Electronic Technicians (ETs). SOCS, MARCH, and TIRKS provide order details used in provisioning. SOCS is used to verify order information/due dates and to ensure that circuit identification numbers referenced in SOCS match those found in TIRKS WORD documents. MARCH is accessed to find the switch identification number for the Cut sheet, to change the disconnect order release date, and to change the disconnect order status. TIRKS is also used to send FAB tickets to the Circuit Provisioning Group.</p> <p>The CO receives orders to be worked via WFA. The DSG uses BASS/SOCS to obtain order details used for the turn-up of xDSL retail and resale orders.</p> |
| PO&P-16-1-11 | Loop Qualification pre-order transactions are executed in a consistent, non-discriminatory, and repeatable manner between retail and wholesale. | Satisfied | <p>During KCI's initial evaluation, wholesale (UNE) loop qualification requests were handled by a manual process, while retail requests were handled through a mechanized process accessing LQS, highlighting a discriminatory difference. While retail requests were processed instantaneously, responses to wholesale xDSL loop qualification requests took up to seven business days. As a result, KCI issued Exception 107.</p> <p>In response to Exception 107, BLS made the LQS system available to CLECs on October 16, 2000. See Exception 107 for additional information on this issue. Exception</p> |

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| | | | 107 is closed. As documented in the <i>Loop Qualification System DLEC/CLEC Job Aid</i> , retail and wholesale loop qualification requests are handled in the same manner upon submission via the Web-based LQS application. Loop qualification responses, indicating whether a line can adequately support xDSL service or not, are provided in near real time for both retail and wholesale requests. |

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| PO&P-16-1-12 | Loop Make-Up (LMU) pre-order transactions are executed in a consistent, non-discriminatory, and repeatable manner between retail and wholesale | Satisfied | <p>Loop Make-Up information is not required for retail xDSL pre-ordering. Only ADSL service is available for retail customers and the ADSL loop make-up information is considered in the generation of the LQS response to pre-order service inquiries.</p> <p>During KCI's initial evaluation, wholesale (UNE) customers could obtain loop make-up information only through a manual process. The manual process for determining the availability and specific characteristics of an ADSL capable loop, is described in the <i>ADSL/HDSL Capable Loop – CLEC Information Package</i>, dated February 24, 2000.</p> <p>As of November 18, 2000, wholesale xDSL customers gained electronic access to BLS's mechanized LMU service. In addition to the LQS, the data returned by the LMU service provides the CLEC with the underlying loop qualification information. The document <i>BellSouth Loop Makeup (LMU) CLEC Information Package</i> provides specific instructions for UNE customer use of BLS's mechanized LMU service.</p> <p>See Exception 107 for additional information on this issue. Exception 107 is closed.</p> |
| PO&P-16-1-13 | Order transactions are executed in a consistent, non-discriminatory, and repeatable manner between retail and wholesale | Satisfied | <p>KCI's initial testing found that retail order processing is mechanized. Wholesale order processes were entirely manual (submitted by the CRSG to the LCSC via fax machines) and therefore, discriminatory. As a result, KCI issued Exception 108.</p> <p>In response to Exception 108, on February 12, 2001 BellSouth implemented a system change to provide all CLECs the ability to order xDSL capable loops electronically</p> |

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| | | | <p>through the TAG, LENS, and EDI interfaces.</p> <p>Retail orders for xDSL service are submitted via electronic systems. Client Logic submits retail orders through via the FASS system, and resale orders are submitted electronically, into SOEG. Retail orders with errors fall out to the DSG, are re-keyed into BASS, flow to SOCS and enter the provisioning process.</p> <p>CLEC xDSL orders with errors fall out to PAWS and the exceptions are addressed by the service representatives in the LCSC. The representatives utilize DOE, SONGS, SOCS, RSAG, ATLAS, and other systems to identify and correct errors allowing the order to enter the provisioning process.</p> <p>In its January 16, 2001 Docket No. 7892-U, the GPSC specified a benchmark/analog for the UNE xDSL (ADSL, HDSL, UCL) Order Completion Interval of 7 business days without conditioning and 14 business days with conditioning.</p> <p>Based on interviews, observations and a review of the documentation (see comments in PO&P-16-1-3)⁵, the newly available electronic ordering functionality is adequate to support CLEC order submission requirements and is non-discriminatory to retail.</p> <p>See Exception 108 for additional information on this issue. KCI has recommended closure of Exception 108 to the GPSC</p> |

⁵ KCI did not conduct feature-function testing for electronically submitted xDSL orders.

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| PO&P-16-1-14 | Facility Assignment transactions are executed in a consistent, non-discriminatory, and repeatable manner between retail and wholesale | Satisfied | <p>In the AFIG, the Facility Assignment and Control System screens and, where possible, automatically assigns facilities to orders from LFACS and the Computer System for Mainframe Operations (COSMOS) databases. If LFACS is unable to assign facilities, HAL (Hands-off Assignment Logic) attempts to assign them. If HAL is unable to make the assignment, the order falls out to the AFIG as an RMA (Request for Manual Assistance) and is held in PAWS, the system used to assign and manage the work in the AFIG.</p> <p>When an AFIG supervisor assigns work to a FAS, the work unit(s) appear as packages on the FAS's PC desktop. The FAS opens the work package in PAWS to see the RMA and assigns facilities in LFACS and/or COSMOS. The FAS waits until the status in SOAC (Service Order Analysis & Control) is updated to show that facilities have been assigned.</p> <p>If the FAS is unable to resolve the assignment error, he/she calls the database maintenance group to report the problem. The database administrator will either call back to inform the FAS of resolution or the specialist will check the order after one-half hour to see if the assignment has been made. The FAS may also need to call the Central Office (CO or Serving Wire Center) to clarify the assignment information. CO contacts are maintained in a binder on the FAS' desk.</p> <p>Provisioning Specialists in the CPG use TIRKS to generate their respective Work Lists. Specialists work orders according to their respective Loop Assignment & Make-Up (LAM) dates, which are typically one to two days</p> |

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| | | | <p>prior to the Ready and Designed (RID) date. Using the orders obtained from TIRKS, the Provisioning Specialist views the specific orders in SOCS to obtain additional information needed to resolve the error(s).</p> <p>To resolve order errors, the Provisioning Specialist sends trouble tickets to the AFIG via the TIRKS Field Assistance screen or contacts the LCSC. Following each contact, the Provisioning Specialist enters notes into the Work Force Administration/Control (WFA/C) system regarding current order status. Orders then flow to the Design Group. Orders are removed from the TIRKS Work Lists once a “PD” status in SOCS is achieved.</p> <p>CPG xDSL orders are identified by the code “LXFU.” As orders flow through the BLS facility assignment process, there is no distinction among Retail, Resale, and Wholesale (UNE) order types.</p> |
| PO&P-16-1-15 | Service Activation transactions are executed in a consistent, non-discriminatory, and repeatable manner between retail and wholesale | Satisfied | <p>All WMC assignments are driven by a commitment date made by the DSG. ADSL-related work is dispatched by the WMC via the AELERA database. The WMC Load Balance Manager assigns orders to Service Technicians. The WMC Load Balance Manager sends specific order assignments to the proper Network Managers a day before the actual work is to take place. Network Managers are able to see which of their Service Technicians are working specific orders and distribute these orders (via AELERA/LMOS) for work to begin.</p> <p>UNE Center Maintenance Administrators review orders to ensure that they are error-free and resolve any jeopardy conditions/Service Order Control</p> |

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| | | | <p>System (SOCS) error codes (e.g., AO/FAO) prior to loading orders to Electronic Technicians (ETs) via WFA/C for provisioning. MAs work orders by their respective due dates.</p> <p>ADSL-related work is dispatched to the CO by the Work Management Center (WMC) via the Work Force Administration (WFA) system. The WMC assigns the priority for all work flowing into the CO. The CO has no input in deciding what work gets assigned or in which order work is completed.</p> <p>The DSG's SAR team works to provide xDSL services to ISPs/NSPs. SAR staff members fulfill three main roles: troubling shooting ADSL installations/maintenance issues, addressing pending provisioning orders, and handling incoming calls from ISPs/NSPs, BellSouth.net, and field technicians. 85% of orders coming into the SAR group automatically flow through, the remaining 15% fall out as a Request for Manual Assistance (RMA or Alert). Provisioning orders enter the SAR group via the Network Management System (NMS). The orders are automatically validated by the ADSL NMS. Multimedia Technicians (MTs) on the Alerts Team address orders that have failed this validation process. Those orders that fail validation are addressed by the Alert team, which attempts to screen and troubleshoot the order in time to meet its specific due date. The Alert team MT reviews order history, checking assignment and port data. If the order does not have facilities assigned, the MT contacts the AFIG. If the cable name cannot be validated, engineers are contacted to correct it or the order is referred to the NAS group. A WFA</p> |

| Test Cross-Reference | Evaluation Criteria | Result | Comments |
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| | | | ticket is opened for each order that fails validation. If the MT cannot resolve an alert, Tier Two Technical employees act as support. The Alerts Team relies more heavily on the NMS hotline for support in handling alerts. It is not typical that the Tier Two Technical support employees are approached for “Alerts” assistance since their main focus is on handling installation and repair troubleshooting. There is also an NMS hotline that Technicians can call for advice and troubleshooting assistance. |