

# Issue Identification Form

OBF Issue Number	1287
Date Submitted:	8/19/96
Date Accepted:	08/26/96 at OBF #55
Initial Closure	02/03/98 at OBF #61
Final Closure	08/25/98 at OBF #63
Issue Category	RESOLVED

## Part B, Page 55 (Status History)

**Issue:** Billing for Unbundled Network Elements

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However, another provider indicated that tandem switching charges may apply whenever a tandem is utilized to traverse the network.

### Issue 1286 Status History (Con't)

Before closing the discussion one representative asked for a clarification of CLEC (Certified Local Exchange Carrier) in respect to this issue. The Committee agreed that for purposes of this discussion, you have a provider of unbundled service (which could be a CLEC) or a customer of unbundled service (which is the local service/switching provider).

Discussion will continue at OBF #57.

### Issue 1286 STATUS HISTORY (Page 11) OBF #57 (February 3-5, 1997)

The Committee discussed several scenarios provided by Beverly Hutchinson (AT&T). Several scenarios have been updated as a result of discussions which took place regarding types of charges associated with each scenario. (See attached updated scenarios.) The focus of the discussion was on identifying all possible billing elements for unbundled switching. The actual elements billed will be based on company tariffs and contractual arrangements. During discussion, committee members began including unbundled network elements in the diagrams. The committee agreed that this was overcomplicating the discussion and felt that these diagrams should also be used for issue 1286. The committee also agreed that issue 1286 and 1287 may need to be combined. Due to time constraints, the Committee was not able to discuss this issue in its entirety and this issue will be discussed OBF 58.

Additional homework items were assigned to this issue as follows:

**Each participant is asked to look into the following:**

- 1) Will the unbundled switching customer have NPA/NXX's assigned to them?**
- 2) In an unbundled environment, how will the IXC know there is an unbundled LEC (ULEC)?**

Discussion will continue at OBF 58.

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## Part B, Page 56 (Status History)

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Issue: Billing for Unbundled Network Elements

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## Part B, Page 57 (Status History)

Issue: Billing for Unbundled Network Elements

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**OBF #59 - August 12, 1997**

### Issue 1286 STATUS HISTORY (Page 12) OBF #58 (April 22, 1997)

Proposal was made to combine Issues #1286 and #1287. One company voiced an objection to merging the issues and they have different issues with Unbundled Network Elements and Unbundled Local Switches. Group agreed to merge issues, but will identify those issues unique to unbundled switching or unbundled network elements.

Issue 1286 was withdrawn.

This is the end of the status history for Issue 1286.

### Issue 1286 STATUS HISTORY (Page 13) OBF #59 (August 11 - 15, 1997)

At OBF #58 it was decided to combine this issue with 1287. Issue 1286 was then withdrawn. All homework and status history associated with Issue 1286 will be combined with Issue 1287 status history. Consensus was reached and this issue was put into Final Closure.

## INTERIM

### Interim Meeting

The discussion began with a review of the homework items. The questions and answers are as follows:

1. Will companies have a usage sensitive port charge in addition to a usage sensitive switching charge.

Answer  
Yes.

2. Is there a usage sensitive charge on a dedicated transport line (Bell Atlantic).

Answer  
Yes.

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Issue: Billing for Unbundled Network Elements

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### 3. Categorize the list of charges into:

1. Tandem Charges
2. Transport Charges
3. End Office Charges
4. Loop Charges

Answer

The items need to be more generically categorized. Therefore, the following list was created.

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**Issue:** Billing for Unbundled Network Elements

### UNBUNDLED NETWORK RATE ELEMENTS

<ul style="list-style-type: none"> <li>● Call-related Database/SS7/SMS***</li> <li>● Operations Support Services*</li> <li>● Network Interface Device ****             <ul style="list-style-type: none"> <li>• Simple (e.g. Single End User)</li> <li>• Complex (e.g. Multiple Occupant Dwelling)</li> </ul> </li> <li>● EO Line Side Ports             <ul style="list-style-type: none"> <li>• Flat Rate</li> <li>• Usage Rate</li> </ul> </li> <li>● Unbundled Local Switching</li> <li>● EO Trunk Side Ports             <ul style="list-style-type: none"> <li>• Common Trunk Port (Usage Sensitive)</li> <li>• Dedicated Trunk Port (Flat Rated)</li> </ul> </li> <li>● Tandem Trunk Side Ports             <ul style="list-style-type: none"> <li>• Common Trunk Port (Usage Sensitive)</li> <li>• Dedicated Trunk Port (Flat Rated)</li> </ul> </li> <li>● Transit Tandem Switching **</li> <li>● Unbundled Tandem Switching</li> </ul>	<ul style="list-style-type: none"> <li>● DA Call Compensation             <ul style="list-style-type: none"> <li>• O+ Call Card</li> <li>• Collect</li> <li>• Billed 3<sup>rd</sup> Number</li> <li>• Mass Announcement</li> <li>• Busy Line Intercept</li> </ul> </li> <li>● Miscellaneous             <ul style="list-style-type: none"> <li>• Call Trace</li> <li>• Repeat Dial</li> <li>• Call Return</li> <li>• In Collects</li> <li>• Packet Switched Data</li> <li>• Reciprocal Compensation</li> <li>• Data Processing, Recording and Transmission</li> <li>• Call Set-up</li> <li>• Custom Call Routing</li> <li>• Interswitch Composite Access</li> </ul> </li> <li>● Carrier Common Line (CCL)</li> <li>● Unbundled Loop</li> <li>● Operator Services</li> </ul>
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\*Homework assigned for Operations Support Services - One company noted they do not have any explicit OSS charges, while others were not sure. Customers asked if OSS charges were to be billed flat rated or on a per transaction basis. Participants needed to further clarify how they were going to bill their OSS charges.

\*\* Transit tandem switching is the cost recovery for tandem switching on an unbundled call. Bell Atlantic requested this be added to the list.

\*\*\* Ameritech includes the following elements under **Call related Database/SS7/SMS**: Signal Formulation, Signal Switching, Signal Transport, and Signal Tandem Termination. Also, SS7 is usage sensitive for LIDB and 500/800 - queries only.

\*\*\*\* AT&T wanted a breakdown of simple NID and complex NID. Mitch Wright explained simple NIDs are to a single user premise and complex NIDs are to multiuser dwellings.

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## Part B, Page 60 (Status History)

Issue: Billing for Unbundled Network Elements

Mitch went through the scenarios of the pictorial service descriptions and various changes were made. Mitch began by reminding everyone that Line Side was entry and trunk side was exit.

Bell Atlantic asked to have direct transport, tandem transport, and transit tandem added to the diagram. A participant felt the transport should be listed more specifically i.e., Dedicated direct, common direct and common tandem. This was added to the scenarios.

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(Status History)

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Issue: Billing for Unbundled Network Elements

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Issue: Billing for Unbundled Network Elements

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### SCENARIOS

The following clarifications and assumptions were made regarding the Unbundling Scenarios. All scenarios are from the perspective of what could be charged to ULEC A. Mitch asked the group if they wanted to continue working this issue or wait until the new FCC order is implemented. The participants want to complete this issue without addressing the shared transport issue. Common transport was further defined to include direct and tandem routed facilities. For purposes of these scenarios, common transport refers to those facilities which carry more than one carrier's traffic and dedicated are used exclusively by one carrier.

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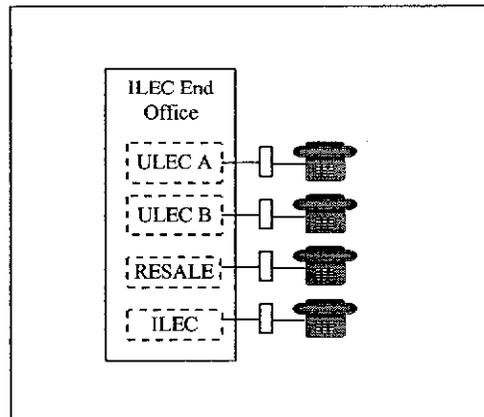
Issue: Billing for Unbundled Network Elements

### 1. LOCAL CALLS - INTRASWITCH ORIGINATING

CALL SCENARIOS
1. ULEC A Originates & ULEC B Terminates
2. ULEC A Originates & RESALE Terminates
3. ULEC A Originates & ILEC Terminates

#### BILLABLE ELEMENTS

- EO Line Side Ports
  - Flat Rated
  - Usage Rated
- Unbundled Local Switching
- Data Processing, Recording & Transmission
- Local Loop
- NID



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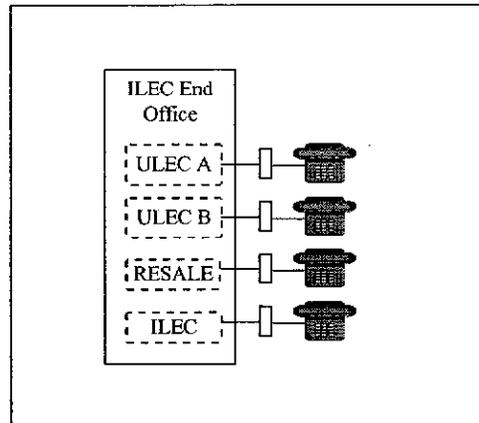
**Issue:** Billing for Unbundled Network Elements

### 2. LOCAL CALLS - INTRASWITCH TERMINATING

CALL SCENARIOS
1. ULEC B Originates & ULEC A Terminates
2. RESALE Originates & ULEC A Terminates
3. ILEC Originates & ULEC A Terminates

#### BILLABLE ELEMENTS

EO Line Side Ports  
•Flat Rated  
•Usage Rated  
Unbundled Local Switching  
Data Processing, Recording & Transmission  
Local Loops  
NID  
Dips (800 Queries)



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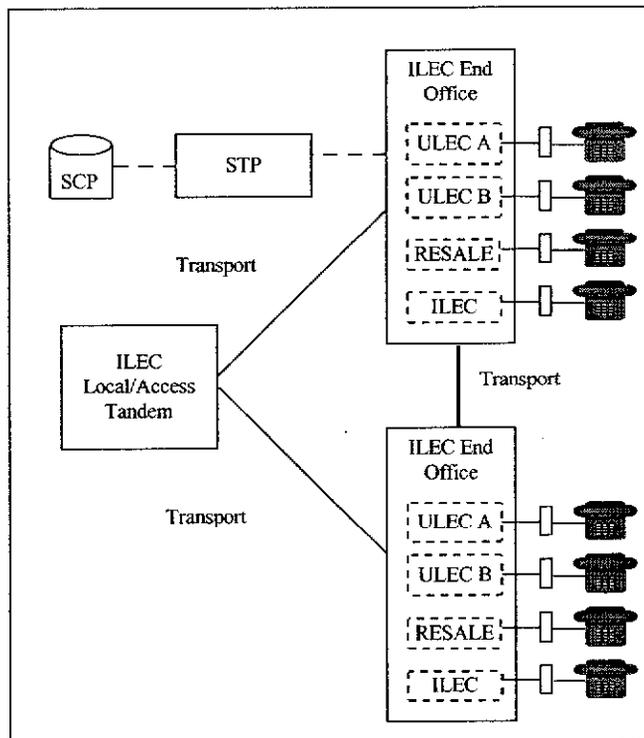
**Issue:** Billing for Unbundled Network Elements

### 3. LOCAL CALLS - INTERSWITCH ORIGINATING

CALL SCENARIOS
1. ULEC A Originates & ULEC B Terminates
2. ULEC A Originates & RESALE Terminates
3. ULEC A Originates & ILEC Terminates

#### BILLABLE ELEMENTS

- EO Line Side Ports
  - Flat Rated
  - Usage Rated
- Unbundled Local Switching (2)
- EO Trunk Side Ports
  - Common Trunk Port Usage Sensitive
  - Dedicated Trunk Port Flat Rated
- Transport
  - Common Transport Usage Sensitive
  - Dedicated Transport Flat Rated
- Tandem Trunk Ports
  - Common Trunk Port Usage Sensitive
  - Dedicated Trunk Port Flat Rated
- Tandem Switching
- Data Processing, Recording & Transmission
- Miscellaneous Charges
  - Reciprical Compensation
  - Call Setup
  - DIPs - LNP
- Local Loop
- NID
- Custom Routing



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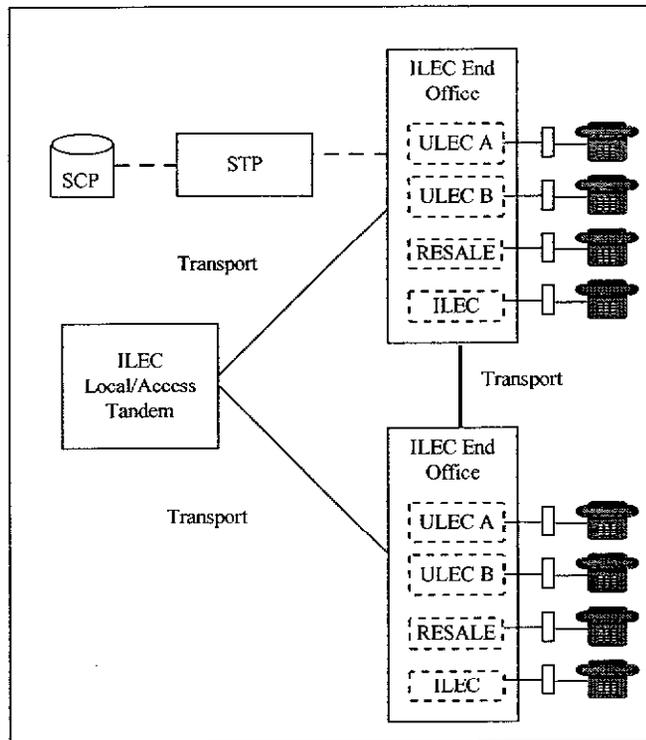
Issue: Billing for Unbundled Network Elements

### 4. LOCAL CALLS - INTERSWITCH TERMINATING

CALL SCENARIOS
1. ULEC B Originates & ULEC A Terminates
2. RESALE Originates & ULEC A Terminates
3. ILEC Originates & ULEC A Terminates

#### BILLABLE ELEMENTS

- Common Transport
- EO Line Side Ports
  - Flat Rated
  - Usage Rated
- Local Switching
- Imputed Termination Charge (WorldCom)
- Miscellaneous:
  - 800 DIP
  - Call Setup
  - Recipricol Comp
- Data Processing, Recording & Transmission
- NID
- Local Loop



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## Part B, Page 67 (Status History)

Issue: Billing for unbundled Network Elements

### 5. LOCAL CALLS - INTERSWITCH O ORIGINATING

#### CALL SCENARIOS

1. ULEC A Originates & CLEC C Terminations

#### BILLABLE ELEMENTS

##### EO Line Side Ports

- Flat Rated
- Usage Rated

##### Local Switching (2)

##### EO Trunk Side Ports

- Common Trunk Port Usage Sensitive
- Dedicated Trunk Port Flat Rated

##### Transport

- Common Transport Usage Sensitive
- Dedicated Transport Flat Rated
- Tandem Switching

##### Tandem Trunk Ports (2 entering and exiting)

- Common Trunk Port Usage Sensitive
- Dedicated Trunk Port Flat Rated

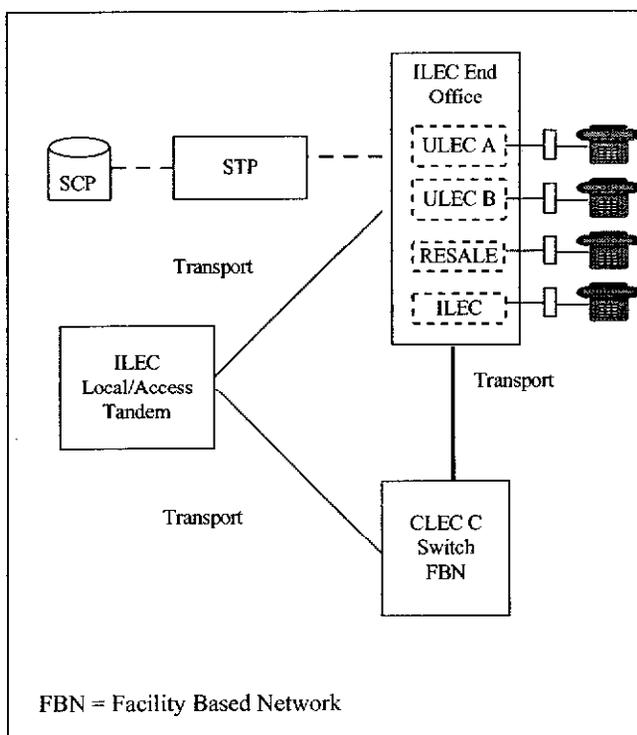
##### Miscellaneous

- Reciprocal Comp
- Call Setup
- Custom routing

##### Data Processing, Recording & Transmission

##### Local Loop

##### NID



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### 6. LOCAL CALLS - INTERSWITCH TERMINATING

#### CALL SCENARIOS

1. CLEC C Originates & ULEC A Terminates

#### BILLABLE ELEMENTS

##### Transport

- Common Transport

##### EO Line Side Ports

- Flat Rated
- Usage Rated

##### Local Switching

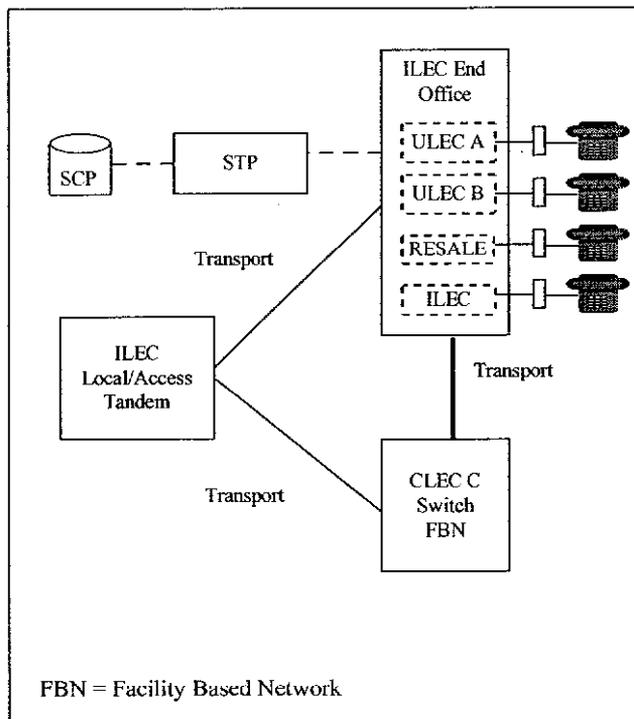
##### Miscellaneous

- Reciprical Comp
- DIP
- Call Setup

##### Data Processing, Recording & Transmission

##### Local Loop

##### NID



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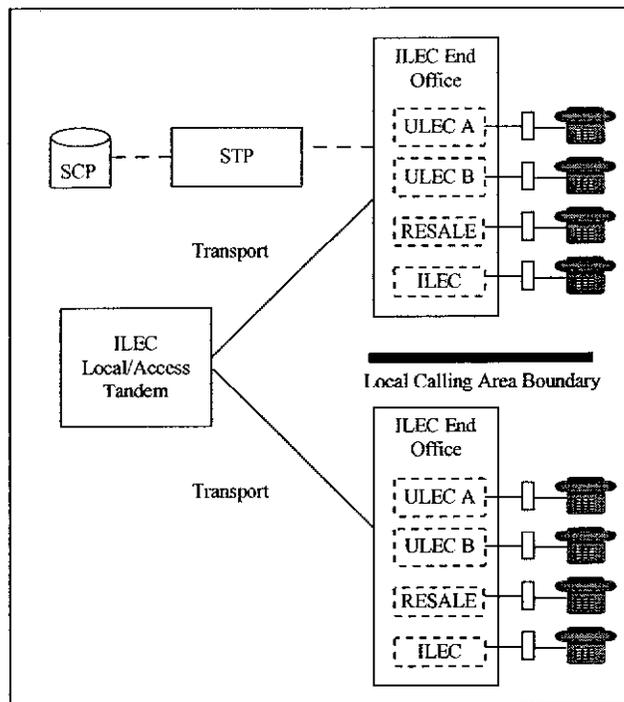
**Issue:** Billing for Unbundled Network Elements

### 7. TOLL CALLS - INTRALATA ORIGINATING

CALL SCENARIOS
1. ULEC A Originates & ULEC B Terminates
2. ULEC A Originates & RESALE Terminates
3. ULEC A Originates & ILEC Terminates

#### BILLABLE ELEMENTS

- EO Line Side Ports
  - Flat Rated
  - Usage Rated
- Local Switching (2) Access and Unbundling or both access Interconnection
- EO Trunk Side Ports
  - Common Trunk Port Usage Sensitive
  - Dedicated Trunk Port Flat Rated
- Transport
  - Common Transport Usage Sensitive
  - Dedicated Transport Flat Rated
  - Tandem Switching
- Tandem Trunk Ports
  - Common Trunk Port Usage Sensitive
  - Dedicated Trunk Port Flat Rated
- Carrier Common Line
- Data Processing, Recording & Transmission
- Call Setup
- Discounted Resold toll
- NID
- Local Loop



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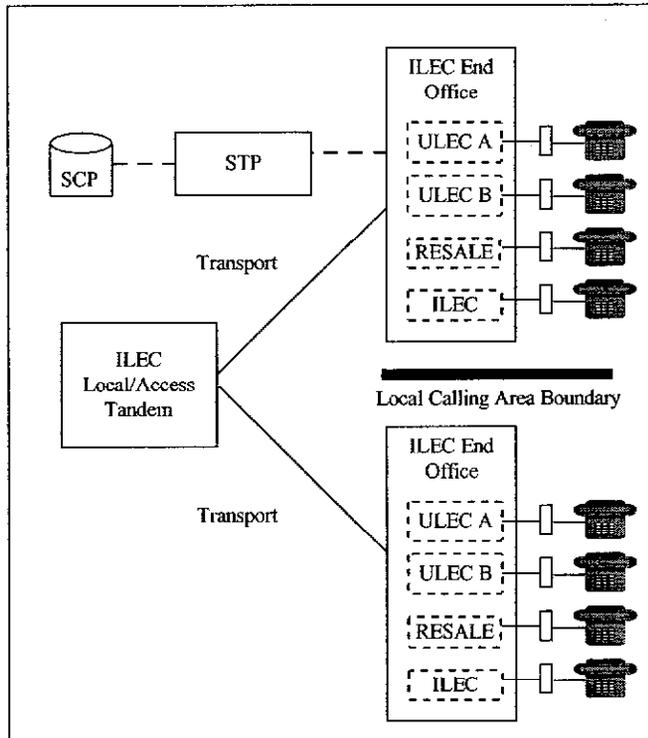
Issue: Billing for Unbundled Network Elements

### 8. TOLL CALLS - INTRALATA TERMINATING

CALL SCENARIOS
1. ULEC B Originates & ULEC A Terminates
2. RESALE Originates & ULEC A Terminates
3. ILEC Originates & ULEC A Terminates

#### BILLABLE ELEMENTS

- Transport
  - Common Transport
- EO Line Side Ports
  - Flat Rated
  - Usage Rated
- Access Local Switching
- Unbundled Local Switching
- Terminating RIC
- Originating CCL
- Miscellaneous
  - Dips
  - Call Setup
- Data Processing, Recording & Transmission
- NID
- Local Loop



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Issue: Billing for Unbundled Network Elements

### 9. TOLL CALLS - INTRALATA/INTRASTATE ORIGINATING

#### CALL SCENARIOS

1. ULEC A Originates & CLEC C Terminates

#### BILLABLE ELEMENTS

##### EO Line Side Ports

- Flat Rated
- Usage Rated

##### Local Switching

##### EO Trunk Side Ports

- Common Trunk Port Usage Sensitive
- Dedicated Trunk Port Flat Rated

##### Transport

- Interconnection
- Common Transport Usage Sensitive
- Dedicated Transport Flat Rated
- Tandem Switching

##### Tandem Trunk Ports

- Common Trunk Port Usage Sensitive
- Dedicated Trunk Port Flat Rated

##### Originating CCL

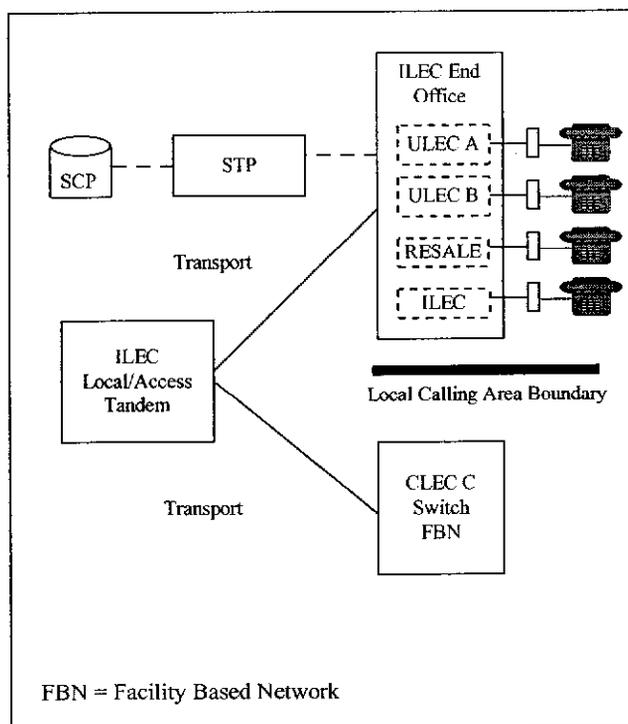
##### Miscellaneous

- Discounted Resold Toll
- Interswitch Composite Access - CLEC
- Call Setup

##### Data Processing, Recording & Transmission

##### Local Loop

##### NID



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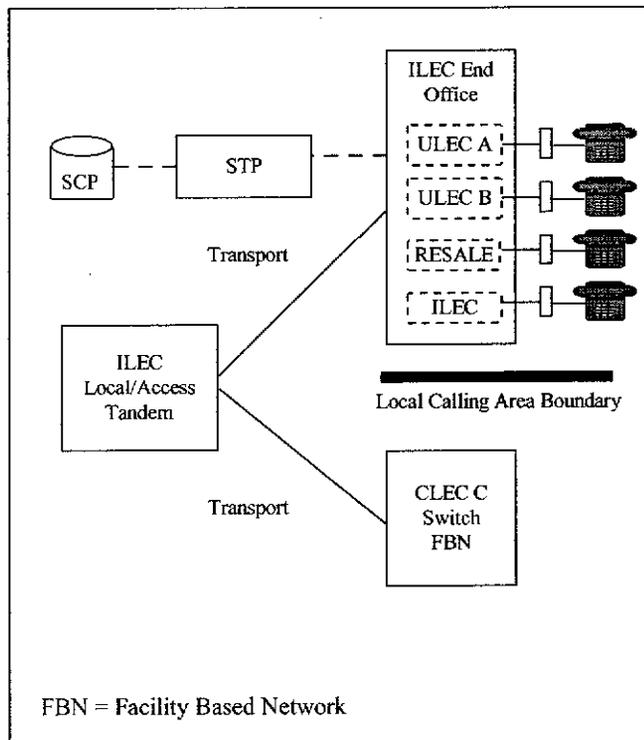
Issue: Billing for Unbundled Network Elements

### 10. TOLL CALLS - INTRALATA/INTRASTATE TERMINATING

<b>CALL SCENARIOS</b>
I. CLEC C Originates & ULEC A Terminates

#### BILLABLE ELEMENTS

- Transport
  - Common Transport
  - Terminating RIC
- EO Line Side Ports
  - Flat Rated
  - Usage Rated
- Local Switching
- Terminating CCL
- Miscellaneous
  - Call Setup
  - Dip
  - Composite access interswitch compensation
- Data Processing, Recording & Transmission
- NID
- Local Loop



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### 11. TOLL CALLS - INTRASTATE/INTERLATA ORIGINATING

<b>CALL SCENARIOS</b>
1. ULEC A Originates & IXC Terminates

#### BILLABLE ELEMENTS

##### EO Line Side Ports

- Flat Rated
- Usage Rated

##### Local Switching

##### EO Trunk Side Ports

- Common Trunk Port Usage Sensitive
- Dedicated Trunk Port Flat Rated

##### Transport

- Common Transport Usage Sensitive
- Dedicated Transport Flat Rated
- Transit Tandem Switching
- Direct Transport
- Tandem Transport
- Interconnection

##### Tandem Switching

##### Tandem Trunk Ports

- Common Trunk Port Usage Sensitive
- Dedicated Trunk Port Flat Rated

##### Originating CCL

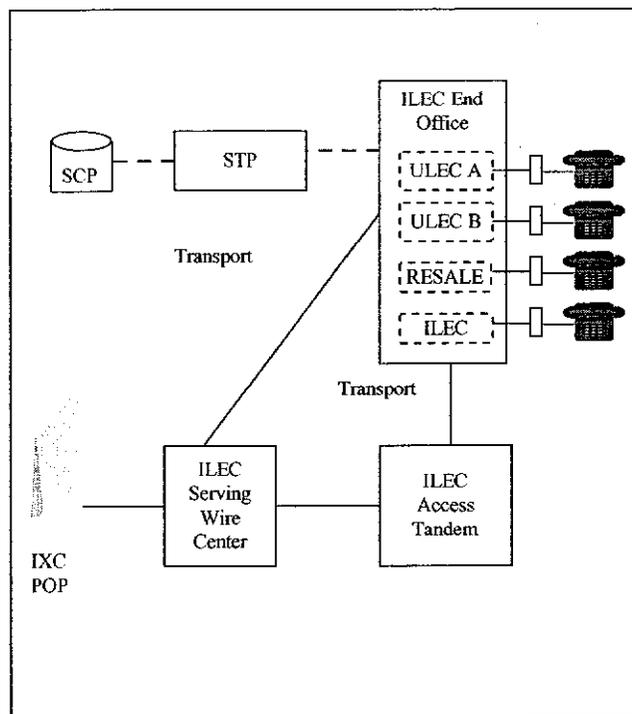
##### Miscellaneous

- Call Setup
- LNP Queries

##### Data Processing, Recording & Transmission

##### Local Loop

##### NID



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### 12. TOLL CALLS - INTRASTATE/INTERLATA TERMINATING

#### CALL SCENARIOS

1. IXC Originates & ULEC A Terminates

#### BILLABLE ELEMENTS

##### Transport

- Direct Transport
- Transit Tandem Switching
- Tandem Transport
- Interconnection

##### EO Line Side Ports

- Flat Rated
- Usage Rated

##### Shared Trunk Port Access

##### Local Switching

##### CCL

##### EO Trunk Ports

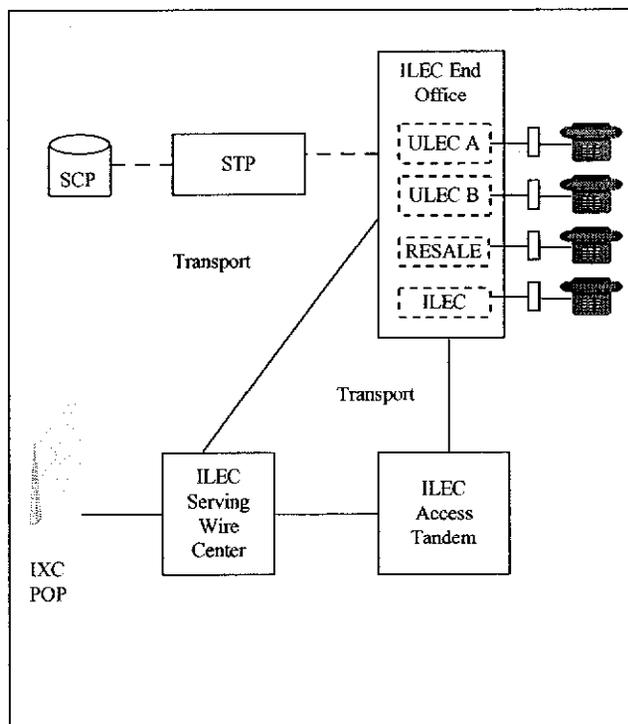
##### Miscellaneous

- Call Setup

##### Data Processing, Recording & Transmission

##### Local Loop

##### NID



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### 13. TOLL CALLS - INTERSTATE/INTRALATA ORIGINATING

#### CALL SCENARIOS

1. ULEC A Originates & IXC Terminates

#### BILLABLE ELEMENTS

##### EO Line Side Ports

- Flat Rated
- Usage Rated

##### Local Switching

##### EO Trunk Side Ports

- Common Trunk Port Usage Sensitive
- Dedicated Trunk Port Flat Rated

##### Transport

- Common Transport Usage Sensitive
- Dedicated Transport Flat Rated
- Transit Tandem Switching
- Direct Transport
- Tandem Transport
- Interconnection

##### Tandem Switching

##### Tandem Trunk Ports

- Common Trunk Port Usage Sensitive
- Dedicated Trunk Port Flat Rated

##### Originating CCL

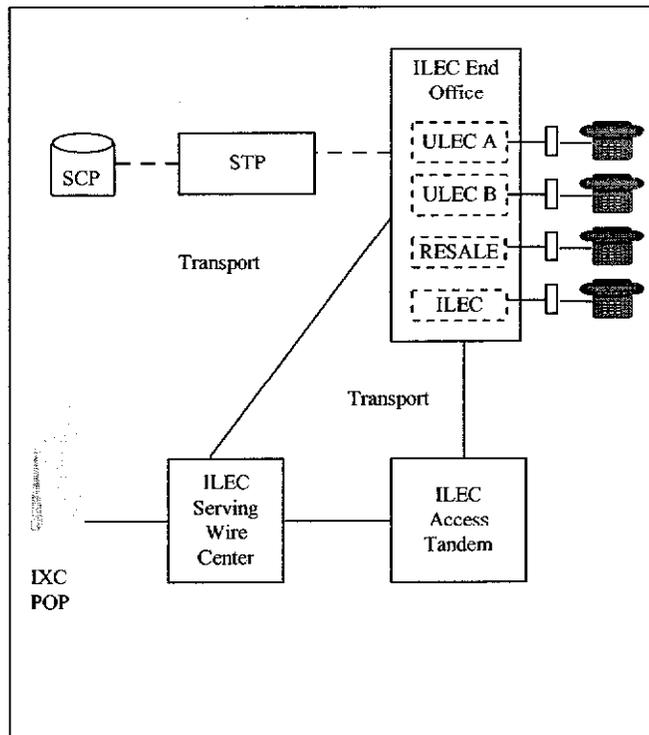
##### Miscellaneous

- Call Setup
- LNP Queries

##### Data Processing, Recording & Transmission

##### Local Loop

##### NID





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The committee decided that there were no further call scenarios that needed to be discussed.

### UNBUNDLED LINE PORT BILL

The committee then addressed bill display requirements for unbundled elements.

#### Account Structure

Bell Atlantic North presented their interim account structure for billing unbundled elements as follows:

ELEMENT	TOA	BAN		BILL/CSR DATA ELEMENTS
		NEW	EXIST	
Unbundled Line Port	J	x		New type of account, new service
Unbundled Trunk Port	?	X		Existing type of account, new service
Unbundled SS7	K		X	Existing type of service, new class of service
Unbundled LIDB	H		X	Existing type of service, new class of service
Unbundled Facilities	N	X		Existing type of account, new class of service

Mr. Sampson reminded the committee that the types of accounts were identified during OBF #58 as follows:

- Unbundled switching (new account type)
- Unbundled facility (new account type)
- Facility
- Local Facility

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## Part B, Page 78 (Status History)

**Issue:** Billing for Unbundled Network Elements

### Format

Some committee participants noted that the discussion presumes companies will be billing CABS BOS for all UNEs. A request was made for an implementation poll. The question was asked - what format will companies be billing UNE's. The following are poll results:

Company		
Bell South	CABS	Non-CABS
US West	CABS	Mostly Non-CABS
Bell Atlantic	CABS	Non-CABS
Southwestern Bell	CABS	-----
GTE	CABS	Non-CABS
Ameritech	Mostly CABS	Non-CABS
PacBell	CABS	Non-CABS
Sprint - Local Division	CABS	Non-CABS
SNET	CABS	Non-CABS
Cinn Bell	CABS	Non-CABS
Canada	CABS	Mostly Non-CABS

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## Part B, Page 79 (Status History)

**Issue:** Billing for Unbundled Network Elements

### Minimum Data Elements

The committee decided to focus on minimal data elements required for billing UNEs. The following data element list was created: (Changes or additions are noted)

### Face Page

<b>FACE PAGE:</b>
Balance Forward Amounts: Adjustments Applied (By Jurisdiction) Payments Applied, Total Amount of Last Bill, Total Balance Due
Bill Date
Billing Account Number
Billing Inquiries Contact Number
Monthly Charge From/Thru Dates
Current Charge Amounts: Event Charges (by Jurisdiction), OC&Cs (By Juris.), Monthly Charges ( by Juris.), Surcharges, Taxes (by tax authority), Total Current Charges
Due By Date
EC Name & Address
Billing Name
Billing Address
Invoice Number
Originating Company Code (Overall Company Code)
Remittance Name & Address
Service/Feature Group ID (Type of Account)
State Identification
Total Amount Due

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## Part B, Page 80 (Status History)

Issue: Billing for Unbundled Network Elements

### Detail Of Adjustments

The rate element was changed to unbundled rate element.

<b>DETAIL OF ADJUSTMENTS</b>
Adjustment Amount (By Jurisdiction)
Adjustment Description (Phrase Code)
Adjustment From and Adjustment Thru Date
Audit (Claim) Number
Telephone Number
<b>Unbundled Rate Element</b>
Quantity
State Identification

### Detail Of OC&C

Telephone Number - added (Line Side Ports)

Sent TN was deleted

Listed TN was deleted - Do not need the listed TN when in that instance the customer has a ported number and provided their service through unbundling. SNET stated that what you put on your adjustments depends on what you're adjusting.

Rate Element changed to unbundled rate element.

<b>DETAIL OF OC&amp;C</b>
Telephone Number-(Line Side Ports)
Activity Performed
Fractional Amount, One Time Amount, Monthly Amount
Invoice Number
OC&C Amunt (By Jurisdiction)
OC&C Charge Description/Explanation
OC&C From and OC&C Thru Date
Purchase Order Number
<b>Unbundled Rate Element</b>
Quantity (# of Transactions)
State Identification

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## Part B, Page 81 (Status History)

**Issue:** Billing for Unbundled Network Elements

### Detail Of Usage

Changes were made to the following elements:

- Total 3<sup>rd</sup> Party Calls - Deleted
- Total Collect Calls - Deleted
- Total Line Based Calls - Deleted
- End Office - Added
- Rating Point - Maybe
- Total - Added

<b>DETAIL OF USAGE</b>
State
Usage From and Usage Thru Date
Jurisdiction
Minutes/Messages
<b>End Office</b>
Rate
Rate Change Date
Usage Amount
Rate Element Note: Subtotals may be provided for each category
Traffic Type, Initial/Additional, Day of Week, Time of Day, Mileage Quantity/Zone Bands, Business/Residence
<b>Rating Point</b>
<b>Total</b>

### Detail of Surcharges

There were no changes to this section.

<b>DETAIL OF SURCHARGES (if applicable)</b>
Monthly Access Amount, Other Amount
Usage Amount
Type of Surcharge
State

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## Part B, Page 82 (Status History)

Issue: Billing for Unbundled Network Elements

### Detail Of Taxes

Local Taxes were added

<b>DETAIL OF TAXES</b>
Monthly Access Amount, Other Amount
Usage Amount
Type of Surcharge
State
<b>Local Taxes</b>

### Inventory & Rating (CSR)

Changes were made to the following elements:

- Listed TN - Deleted
- Sent TN - Deleted
- Service Address - Added
- TN/EC CKI ID Added
- NC/NCI - Added
- LSO - Added
- Customer Service Address - Added

Issue 1200 Required billable elements for line side ports. Identified the office CLLI , EC circuit ID, the port identifier - USOC or rate element, IC circuit ID CKR if provided, service est. date, change date, port features - USOC.

<b>INVENTORY &amp; RATING (CSR)</b>
TN/EC CKT ID
NC/NCI
LSO
Installation Date (SED)
Change Date (Activity Date)
Rate Element (USOC)
Quantity
Rate
Billed Amount (By Jurisdiction)
Change Indicator
Class of Service Code
Unique Identifier
PLU

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## Part B, Page 83 (Status History)

Issue: Billing for Unbundled Network Elements

### Customer Service Address

The following table reflects how elements would be provided on a switched CSR:

CSR ELEMENT	LINE TRUNK	END OFFICE TRUNK	END USER TRUNK	DEDICATED TRANSPORT	TANDEM TRUNK
TN/EC CKT ID	NO	NO	YES	NO	NO
TN	NO	NO	YES	NO	NO
Installation Date	YES	YES	YES	YES	YES
Change Date	YES	YES	YES	YES	
Rate Element	YES	YES	YES	YES	
Quantity	YES	YES	YES	YES	
Rate	YES	YES	YES	YES	
Billed Amount	YES	YES	YE	YES	
Change Indicator	YES	YES	YES	YES	
Class of Service Code	YES	YES	YES	YES	
Unique Identifier	NO	NO	NO	NO	
PLU	YES	YES	YES	YES	
CKR/ CKT ID	YES	YES	YES	YES	
Tandem Office					YES
EO	YES	YES	YES	YES	
Two-Six Code	YES	YES	YES	YES	
NC/NCI	YES	YES	YES	YES	
ISO	YES	YES	YES	YES	
Line Class Code	NO	NO	NO	NO	
Hunt Groups			YES		
Service Address	?	?		?	
Test Numbers			?		

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## Part B, Page 84 (Status History)

**Issue:** Billing for Unbundled Network Elements

Mitch then asked the committee to identify their preference for the Account Structure for UNEs.

ELEMENT	TOA	BAN		Remarks
		NEW	EXIST	
EO Line Side Ports	J	x		
Local Switching	J			on line port bill
EO Trunk Side Ports	P,I,N			DID (N) SNET CUSTOMERS PREFER "I"
Tandem Trunk Ports	I			Bill the same way as access dedicated transport with different classes of service and USOC.
Tandem Switching	I/J			
Transport				
Common Transport				
CCL				
Data Processing, Recording, & Transmission				
UNE interconnection	J			
Unbundled Loops	J/N			Loops ordered separately "N". A participant stated that in the previous issue the CKL1 was the COLO in this issue it is end office of incumbent. SWBT said if the loop is ordered stand alone they order circuit id, if it is in conjunction with port there is a USOC underneath that port.
NIDs	J/N/U			U if stand alone

Further discussion on how the elements could be billed is reflected below:

Element	Suggested way of Billing
CALL SET UP	Usage section
Routing	Usage section
NIDs	<p>SNET only has non-recurring charges for installation. SNET is billing on local products and services under one USOC, ASG1. SNETs loop already includes a NID.</p> <p>SWBT stated that NIDs ordered with a loop are associated with a ckt id. NIDs ordered with a port are associated with a port</p>

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## Part B, Page 85 (Status History)

Issue: Billing for Unbundled Network Elements

	<p>GTE offers the NID as a stand alone product and will put the NID in their end user system. It will be billed as a Simple NID USOC and a Complex NID USOC.</p> <p>It was stated that the following items are needed in the CSR:</p> <ul style="list-style-type: none"> <li>NID</li> <li>Account #</li> <li>Service Address</li> <li>Possible Unique NID ID</li> </ul> <p>O&amp;P - Issue 1391 is related to NIDs.</p>
<b>Call Related Database /SS7/SMS</b>	<p>The charges should mirror how they are billed today (e.g. links on a link bill, queries on a query bill.)</p> <p>The bill components are: links - usage, query - quantity, amount, rate, total, Query for hire, charged per query, number, portability, query quantity, rate, amount</p> <p>GTE intends to bill like access. US west will bill some link and some usage billing. Ameritech will bill SS7 Octets*. The word "Octet" will not appear on bill. Debbie Syron, SWBT will bring in a bill with Octet.</p>
<b>Usage</b>	<p>EO Line Side Port - J, New</p> <p>Local Switching - J - On line Port bill</p> <p>EO Trunk Side Ports - P, I, N,</p> <p>SNET using I - new account Bell Atlantic North P and N SNET DID using N</p> <p>Port bill separate and apart from trunks, loops</p>

\* Octet was defined as one billable element comprised of 3 elements: Call Setup Originating Point Code (OPC), Call Setup Destination OPC, and Call Setup Operator Point Code. The Octet will be used to determine the quantity rather than call queries.

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Issue: Billing for Unbundled Network Elements

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Discussion continued on the billable elements Queries

SNET stated that whichever account they order on but will be separately identified by unique USOC.

US West unbundled except for the interconnection point.

The question was asked if this impacted an issue that was handed off to the SNAC Committee This committee said no that issue is not impacted.

### Operator Services

Bell Atlantic stated per connection to the data center flat rated.

Bell Atlantic North said they will put it on a M bill (Misc.)

Is operator services a specific product or unbundled services?

Time Warner stated you can just buy operator services separately and thinks it is both. Sprint agreed . Unbundled elements guide contains directory listing and service. Customer can order them separately.

Vicki McDonald - Ameritech - Bills out of the BA system. Miscellaneous.

Mitch asked if there was a need to have a list of minimum requirements for Operator Services.

SWBT suggested that this question be deferred until more information is obtained.

### Stand Alone NIDs

Ordered with port on Port Bill (J)

Ordered with loop on loop bill (N)

Stand Alone (U - local products and services) - was preferred

Stand alone loops and stand alone NIDs will never appear on the same bill.

If the port and loop are on two separate bills how do you identify the NID? The loop would be identified by a circuit id.

US West stated that the CLT/Circuit ID will be presented like a WATS bill.

WorldCom stated that Account Type J will not accommodate the CLT/Circuit ID.

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## Part B, Page 87 (Status History)

Issue: Billing for Unbundled Network Elements

The customer preference is for NIDs to be billed on type of account J if CLTs and TNs can be on the same bill. If they cannot be on the same bill, TNs should be billed on a J account and CLTs should be billed on an N account.

### Tandem Trunk Ports

The billing for tandem trunk ports should be on type of account I.

### Tandem Switching

A poll was taken on how tandem switching would be billed.

US WEST - D account

SNET - I account

SWBT - J account

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## Part B, Page 88 (Status History)

Issue: Billing for Unbundled Network Elements

### **HOMEWORK FOR ISSUE 1287**

1. Which CAB BOS account types will be billed unbundled tandem switching and unbundled local switching?
2. a) How will Operational Support Systems (OSS) charges be billed?  
b) Are OSS charges flat rated or per transaction based?
3. Review and verify minimum data elements list.
4. Are rating points needed/applicable on the Detail of Usage Section?
5. Are Summary Pages required?
6. Are sub-totals required for each section?

The above homework items are due at OBF #60.

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## Part B, Page 89 (Status History)

**Issue:** Billing for Unbundled Network Elements

### **OBF # 60 (November 3-7, 1997)**

The Committee began discussion of Issue 1287. Mr. Sampson reviewed the work that had been done on this issue during the Interim Meeting in Birmingham.

The homework assigned for this issue at OBF #59 was addressed. The questions and answers are as follows:

#### Homework Item #1

Which CABS BOS accounts will be billed unbundled tandem switching and unbundled local switching?

#### UNBUNDLED LOCAL SWITCHING OFFER

Company	Unbundled Local Switching Port/Usage	Unbundled Tandem Switching Port/Usage
SNET	J/J	I/I
USW	TBD/TBD	TBD/TBD
Ameritech	end user/end user S with new CS	S/S w/new CS w/new CS
SWBT	P→J/P→J	TBD/J*
BA South	End user/end user	I/I
BA North	J/J	N/P
BellSouth	misc*/misc*	misc*/misc*
GTE	TBD/TBD	TBD/TBD
CBT	Same as Ameritech	Same as Ameritech
Sprint	N/TBD	N/TBD
Pac Bell	FGD/FGD	N/FGD

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## Part B, Page 90 (Status History)

**Issue:** Billing for Unbundled Network Elements

- \* = Temporary
- Account Type
- I = SDL = undefined switched, D-like bill
- J = TN/line level bill, switched bill with flat rated charges
- TBD = to be determined

### Homework Item #2:

How will operational Support Systems (OSS) charges be billed? Are OSS charges flat rated or per transaction based.

### Operational Support Systems

BA North	Flat rated in the OC&C on misc. bill Fixed and per transaction
BA South	TBD Per transaction
Ameritech	TBD TBD
BellSouth	Flat rated in the OC&C on misc. bill Fixed and per transaction
SWBT	TBD TBD
Pac Bell	misc ? Per transaction
USW	TBD TBD
GTE	TBD TBD
Sprint -Local	TBD TBD
SNET	TBD TBD

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## Part B, Page 91 (Status History)

**Issue:** Billing for Unbundled Network Elements

### Homework Item #3

Review and verify minimum data elements list.

The Committee reviewed and verified the minimum data elements list and made the following changes:

### **Detail Of Usage**

Total 3<sup>rd</sup> Party Calls - Deleted  
 Total Collect Calls - Deleted  
 Total Line Based Calls - Deleted  
 End Office - Added  
 Rating Point - Maybe  
 Total - Added

DETAIL OF USAGE
State
Usage From and Usage Thru Date
Jurisdiction
Minutes/Messages
<b>End Office</b>
Rate
Rate Change Date
Usage Amount
Rate Element Note: Subtotals may be provided for each category
Traffic Type, Initial/Additional, Day of Week, Time of Day, Mileage Quantity/Zone Bands, Business/Residence
<b>Rating Point</b>
<b>Total</b>

### Homework Item #4

Are rating points needed/applicable on the Detail of Usage Section?

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Issue: Billing for Unbundled Network Elements

The answer was yes.

### Homework Item # 5

Are summary pages required? The answer was yes.

The Detailed Summary of Usage Charges portion of a J type bill (provided by Bell Atlantic North) was displayed on the overhead projector and discussed. The customers were asked if they are satisfied with the type of summarization shown (end office level). Bell Atlantic North has these forms available on paper only. The customers expressed a desire to receive the data electronically whenever possible.

A participant from Bell Atlantic noted that summaries for I type accounts will be the same as for J type accounts.

The customers expressed satisfaction with the amount of information presented in the summary bill. The Co-Leaders will follow-up with Pacific Bell to find out the account types they use.

### **Account Summaries:**

EO - Summaries by jurisdiction if more than 1 unbundled rate element is applicable (paper only).

TN - Summaries if billed at the TN level and more than one rate element is applicable.

The jurisdiction will appear on the top of the page. The example in the attachment shows a local jurisdiction.

The question was raised "Are there any providers that want this summary mechanized, since it is currently paper only?" The providers agreed no mechanized copy is necessary.

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**Issue:** Billing for Unbundled Network Elements

### Homework Item #6.

Are sub-totals required for each section? The answer was yes.

The Committee reviewed their preferences for Account Structure for UNEs. A matrix created at the Interim Meeting was reviewed and updated.

The following changes have been made:

### **Inventory & Rating (CSR)**

Listed TN - Deleted

Sent TN - Deleted

Service Address - Added

TN/EC CKI ID Added

NC/NCI - Added

LSO - Added

Customer Service ADOR - Added

Issue 1200 Required billable elements for line side ports. Identified the office CLLI , EC circuit ID, the port identifier - USOG or rate element, IC circuit ID CKR if provided, service est. date, change date, port features - USOC.

	NID	Trunk port	Line port	SS7- csr data elements for unbundled SS7 signaling are the same as today
<b>INVENTORY &amp; RATING (CSR)</b>				
TN/EC CKI ID)		X	X	
NC/NCI (		X	X	X
LSO)		X	X	
Installation Date (SED)	X	X	X	
Change Date (Activity Date)	X	X	X	
Rate Element (USOC)	X	X	X	

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Issue: Billing for Unbundled Network Elements

Quantity	X	X	X	
Rate	X	X	X	
Billed Amount (By Jurisdiction)	X	X	X	
Change Indicator	X	X	X	
Class of Service Code	X	X	X	
Unique Identifier	X	X	X	
PLU	X	X	X	
Customer Service Address	X		X	
OCL		X		
TSC				X
End User Point Code				X

Listed TN - Deleted

Sent TN - Deleted

Service Address - Added

TN/EC CKI ID Added

NC/NCI - Added

LSO - Added

Customer Service ADOR - Added

Issue 1200 Required billable elements for line side ports. Identified the office CLLI , EC circuit ID, the port identifier - USOG or rate element, IC circuit ID CKR if provided, service est. date, change date, port features - USOC.

	.500/800	LIDB
INVENTORY & RATING (CSR)	data base	
TN/EC CKI ID		
NC/NCI	CSR	CSR data elements
LSO	data	for LIDB
Installation Date (SED)	elements	are the same
Change Date (Activity Date)	for	as today
Rate Element (USOC)	500/800	
Quantity	data base	
Rate	are the	
Billed Amount (By Jurisdiction)	same	

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**Issue:** Billing for Unbundled Network Elements

Change Indicator	as	
Class of Service Code	today	
Unique Identifier		
PLU		
<b>Customer Service Address (added)</b>		
OCL		
TSC		
End user point code		

An implementation poll was conducted to see how companies bill different types of queries.

COMPANIES	500 QUERIES	800 QUERIES	LIDB
USW	FGD LIKE* H•	FGD LIKE* H•	H
SNET	H•	H•	H
PAC BELL	TBD	TBD	TBD
SPRINT	FGD	FGD	FGD
GTE	TBD	TBD	TBD
BELL SOUTH	ANC BILL	ANC BILL	ANC BILL
BELL ATLANTIC SOUTH	H	H	H
BELL ATLANTIC NORTH	TBD	J	H
CBT	TBD	TBD	N/A
SWBT	TBD	TBD	TBD
AMERITECH	N/A	H	H

H= DATA BASE

J = UNBUNDLED LINE PORT

\* = WITH TRUNKS

• = WITH OUT TRUNKS

LNP QUERIES - TBD

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## Part B, Page 96 (Status History)

Issue: Billing for Unbundled Network Elements

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It was determined that a customer address is needed in CSR. It would be required for NID and line port.

The Committee considered the option of creating a two-bill type of approach. Mr. Sampson expressed a concern that the companies would not implement a standard created by the Billing Committee. BellSouth noted that they will implement a standard created by the Billing Committee. The TRG is also waiting for a standard.

Mr. Wright listed the options in order of customer preference.

- 1) UNB FACILITIES BILL  
UNB "SWITCHED" BILL
- 2) æ = UNB FACILITIES BILL  
J = UNB LINE LEVEL SWITCHED BILL  
I = UNB TRUNK/OFFICE LEVEL SWITCHED BILL
- 3) MEGA BILL CONCEPT

The customer and provider were unable to agree on option #1. Consensus was reached to approach option #2.

Mr. Wright walked through the format of the J type (Unbundled Line Port) bill.

Mr. Wright posted a viewgraph listing the different jurisdictions.

Interstate

InterLATA

IntraLATA

Intrastate

InterLATA

IntraLATA

Local

Local

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## Part B, Page 97 (Status History)

Issue: Billing for Unbundled Network Elements

Toll

Intrastate - ATP (Access Toll Providers)

Interstate - ATP (Access Toll Providers)

The following homework item was created:

### HOMEWORK

ESTABLISHED AT: OBF #60

ISSUE# 1287    DATE: 11/6/97

1 . Company requirements for unbundled jurisdiction

a . Local jurisdiction with detail  
breakouts of:

Local

Toll

Intrastate - ATP (Access Toll Providers)

Interstate - ATP (Access Toll Providers)

b . Jurisdictions of:

Local

Toll

Intrastate

Interstate

Responsible: Billing Committee

Due: OBF #61

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**Issue:** Billing for Unbundled Network Elements

2. Who will you bill the Query charge to? IXC or unbundler.  
If unbundler, where would you bill this? (misc.)

Responsible: Billing Committee  
Due: OBF #61

Do companies want to organize bills according to #1 or #2?

Unbundled bills can be broken out according to the following categories:

Common - ILEC Facilities

Direct

Tandem

Dedicated - Terminates to or Originates from IXC (Interexchange carrier)  
Facilities

Direct

Tandem

The Committee reviewed the status history from the Interim Meeting.

The Committee did a survey of how many companies would bill the line port for each type of service.

### **Line Port**

Transport

5 Common (originating only for SWBT)

1 Direct

Tandem

4 (+1?) Switching

1 Transport

1 Transit Tandem (Terminating only)

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Date Accepted:	08/26/96 at OBF #55
Initial Closure	02/03/98 at OBF #61
Final Closure	08/25/98 at OBF #63
Issue Category	RESOLVED

## Part B, Page 99 (Status History)

**Issue:** Billing for Unbundled Network Elements

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End Office

- 1 Access LS (local switching)
- 7 Unbundled LS (local switching) (originating only - SNET)
- 1 Shared Trunk Port Access

1 ? Common Line

- Originating
- Terminating

Miscellaneous

- 800 Query
- 800 POTS translation
- LNP Query ?
- 3 Call Set up
- DA
- Busy Line
- Verify
- Interrupt
- Operator
- (SWB) custom routing
- CL Competition

The homework has been provided as Attachment 16. This issue will remain open

# Issue Identification Form

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## Part B, Page 100 (Status History)

**Issue:** Billing for Unbundled Network Elements

### OBF #61 (February 2-6, 1998)

The Committee began discussion of Issue 1287.

The homework assigned for this issue at OBF #60 was addressed. The questions and answers are as follows:

#### 1. **Company requirements for unbundled jurisdiction**

##### a. **Local jurisdiction with detail breakouts of:**

**Local**  
**Toll**  
**Intrastate - ATP (Access Toll Providers)**  
**Interstate - ATP (Access Toll Provider)**

##### b. **Jurisdiction of:**

**Local**  
**Toll**  
**Intrastate**  
**Interstate**

#### **Answer:**

SNET only has local jurisdiction  
Bell Atlantic - Option A  
GTE - Option B  
US West - TBD  
BellSouth - Option A  
South Western Bell - Option A  
Pac Bell - will be negotiated  
Ameritech - Option B no toll  
Altell- TBD  
Sprint Local - TBD  
MCI Local - TBD  
AT&T Local - TBD

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Bell Canada - NA

**2. Who will you bill the query charge to? IXC or unbundler. If unbundler, where would you bill this? (misc)**

SNET- If IXC 800 number, billed to IXC on FGD in the Miscellaneous section. If SNET 800 number, an 800 processing charge is billed to the unbundler on the unbundled line port bill (J) in the Miscellaneous section.

Bell Atlantic- 800 Billed to Unbundler J Bill misc.  
LIDB on LIDB Bill

GTE - 800 query to IXC - FGD Bill misc. section  
LIDB to Unbundler - to be determined  
AIN to to the unbundler to be determined

US WEST - To be determined

BellSouth - Unbundler - Trunk Port Bill End Office Section

South Western Bell - To be determined

Pac Bell - IXC -Data base bills SS7 LIDB, 800 etc. Misc Section  
(whoever made query)  
Unbundler - misc. (whoever made query)

Ameritech - IXC- Misc. Section (whoever made query)  
Unbundler - misc. section (whoever made query)  
LIDB Data Base Bill  
800 Data Base Bill  
H Bill

Sprint Local - Will bill the unbundler - Line Port Misc. Section

MCI Local - To be determined

AT&T - To be determined

Bell Canada - NA

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**Issue:** Billing for Unbundled Network Elements

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Rodney Sampson reviewed the work that has been done on this issue with the Committee and it was determined that they had identified all of the data elements. At OBF #60, the Committee identified 3 basic bill structures: The facilities bill, the "J" bill (unbundled line level switched bill) and the "I" bill (unbundled trunk/office level switched bill). The question was raised if "I" bill was the bill of choice from the carrier community. The answer is yes, based on a decision made at OBF #60.

The "I" bill looks like the Feature Group "D" Bill

End Office Section  
Tandem Trunk Ports  
Directionality Originating & Terminating

End Office Usage billed at the Line Level Bill on "J" bill

The "J" bill looks more like the Feature Group "A" Bill

All Companies will bill unbundled facilities on the Facilities Bill (i.e. "N" Bill).

Mr. Sampson asked the participants if there were any other offices that had end office trunk ports? The answer was No.

Mr. Sampson recapped:

J is J  
I is the unbundled trunk port  
N is unbundled facilities  
There is not a new account type.

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**Issue:** Billing for Unbundled Network Elements

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The minimum required data elements defined would be to accommodate those who do not use CABS for their billing (SECAB and EDI).

Mr. Sampson asked the Committee if they wanted to include a sample of the "J" and "I" bill in the Resolution Statement. It was agreed that Mr. Sampson would include the samples.

The Committee reviewed the Resolution Statement which was drafted by Rodney Sampson. After review and revision of the Resolution Statement the Committee reached consensus to accept the Resolution.

Mr. Sampson advised the Committee members that they will receive an attachment to the Resolution ("J" bill and "I" bill) in the OBF #61 Notes and if there are any problems they can discuss this at OBF #62. (Resolution Statement with attachments have been provided as Attachment 13)

Consensus was reached to put this issue into initial closure.

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Issue: Billing for Unbundled Network Elements

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### **OBF #62 (April 20-24, 1998)**

The Committee began discussion of Issue 1287. An "I" bill was supposed to be provided prior to OBF #62, but was not. Therefore, this issue was reopened. A participant provided the Committee with an "I" bill and the same was reviewed. The "I" bill will be added to the Resolution Statement. The Committee continued to revise the issue according to Committee discussion. It was stated that Customers want a total on the TN level for paper CSRs, but several providers stated that they cannot support TN totals. The providers can only provide totals at the end office level. The Customers preference is to total at a TN level.

Arthur Barone of Bell Atlantic provided the Committee with a Customer Service Record. The Committee reviewed the record and it was agreed that the CSR will be added to the Resolution Statement.

After review of the revised Resolution Statement, it was agreed by the Committee that this issue will go back into Initial Closure. The Resolution Statement has been provided as Attachment 7.

### **OBF #63 (August 24-24, 1998)**

The Resolution Statement for this issue was reviewed by the Committee. There being no further discussion on this issue, consensus was reached to move this issue into Final Closure. (The Resolution Statement has been provided as Attachment 13 to the OBF #63 Notes).