

NATIONAL EXCHANGE CARRIER ASSOCIATION
COMMON LINE DEMAND TRENDS

VOLUME 3
EXHIBIT 1
Workpaper 1 OF 1

COMPANY: AVG SCHEDULE & COST

	<u>PYCOS 2013</u>	<u>2014/2015</u> <u>Test Period</u>	<u>GROWTH</u> <u>RATE</u>
COMMON LINE POOL MEMBERS			
TOTAL CPT*	4,110,389	3,901,973	-3.4%
Monthly Residence Line CPT	3,080,911	2,923,410	-3.4%
Monthly Single Line Business CPT	188,050	179,343	-3.1%
Monthly Multi Line Business CPT	841,428	799,220	-3.4%
BRI ISDN Arrangements	1,470	1,319	-7.0%
PRI ISDN Arrangements	5,875	5,861	-0.2%
DS1 Arrangements	1,546	1,440	-4.6%
SAS CHANNELS	255	263	2.1%
END USER TARIFF MEMBERS			
TARIFF MEMBER CPT*	4,064,108	3,858,288	-3.4%
Monthly Residence Line CPT	3,050,321	2,895,190	-3.4%
Monthly Single Line Business CPT	185,558	176,985	-3.1%
Monthly Multi Line Business CPT	828,229	786,113	-3.4%
BRI ISDN Arrangements	1,434	1,282	-7.2%
PRI ISDN Arrangements	5,551	5,527	-0.3%
DS1 Arrangements	1,540	1,435	-4.6%
SAS CHANNELS	255	263	2.1%
NON-END USER TARIFF MEMBERS			
NON-TARIFF MEMBER CPT	46,281	43,685	-3.8%
Monthly Residence Line CPT	30,590	28,220	-5.2%
Monthly Single Line Business CPT	2,492	2,358	-3.6%
Monthly Multi Line Business CPT	13,199	13,107	-0.5%
BRI ISDN Arrangements	36	37	1.8%
PRI ISDN Arrangements	324	334	2.0%
DS1 Arrangements	6	5	-11.4%
SAS CHANNELS	0	0	NA

*Excludes 3,392 Unbunbled Network Element (UNE) CPT in PYCOS 2013 and 3,277 UNE CPT in 2014/2015Test Period.

NATIONAL EXCHANGE CARRIER ASSOCIATION
CAF ICC DATA COLLECTION SUMMARY

VOLUME 3
EXHIBIT 2
Workpaper 1 OF 1

COMPANY: AVG SCHEDULE & COST

	<u>FY 2013*</u>	<u>2014/2015</u> <u>Test Period</u>	<u>Annualized</u> <u>Growth</u> <u>Rate</u>
TRAFFIC SENSITIVE POOL MEMBERS			
MOU Projections			
Interstate MOU	6,025,033,787	5,278,254,858	-7.3%
Intrastate MOU**	2,774,774,276	2,494,631,869	-5.9%
Recip. Comp. Originating MOU	NA***	32,439,530	NA
Recip. Comp. Terminating MOU	NA***	87,782,990	NA
Access Lines Projections***			
Residence CPT Excluding Lifeline CPT	NA	2,234,071	NA
Single-Line Business CPT	NA	149,438	NA
Multi-Line Business CPT	NA	621,321	NA

* Fiscal year 2013 is a time period from October 1, 2012 through September 30, 2013.

** For the companies which didn't provide FY 2013 data, settlement is used.

*** Demand for FY 2013 was not collected in 2014 CAF ICC data collection.

**NATIONAL EXCHANGE CARRIER ASSOCIATION
RATE DEVELOPMENT & COST ANALYSIS
SPECIAL ACCESS DEMAND TRENDS**

**VOLUME 3
EXHIBIT 3
WORKPAPER 1 OF 2**

**COST AND AVERAGE SCHEDULE
TOTAL NECA POOL - GROUP B,C,D**

LINE DESCRIPTION	2013 AVERAGE MONTHLY DEMAND	2014/2015 TEST PERIOD FORECAST	2014/2015 TEST PERIOD ANNUAL GROWTH
2W VG - CT ¹	321	267	-11.6%
2W VG - CMF ¹	10,099	8,401	-11.6%
2W VG - CMT ¹	480	400	-11.6%
2W VG - CIRCUITS ¹	247	205	-11.6%
4W VG - CT ¹	1,022	918	-6.9%
4W VG - CMF ¹	5,797	5,209	-6.9%
4W VG - CMT ¹	525	472	-6.9%
4W VG - CIRCUITS ¹	786	706	-6.9%

¹ INCLUDES WATS

**NATIONAL EXCHANGE CARRIER ASSOCIATION
RATE DEVELOPMENT & COST ANALYSIS
SPECIAL ACCESS DEMAND TRENDS**

**VOLUME 3
EXHIBIT 3
WORKPAPER 2 OF 2**

COST AND AVERAGE SCHEDULE
TOTAL NECA POOL - GROUP B,C,D

LINE DESCRIPTION	2013 AVERAGE MONTHLY DEMAND	2014/2015 TEST PERIOD FORECAST	2014/2015 TEST PERIOD ANNUAL GROWTH
HI CAP 1.544 - CT ¹	57,661	52,293	-6.3%
3 YEAR DISCOUNT CT	960	871	-6.3%
5 YEAR DISCOUNT CT	3,509	3,182	-6.3%
HI CAP 1.544 - CMF ¹	470,982	427,137	-6.3%
HI CAP 1.544 - CMT ¹	52,628	47,729	-6.3%
HI CAP 1.544 - CIRCUITS ¹	41,186	37,352	-6.3%
HI CAP 44.736 - CT ²	1,046	1,279	14.3%
3 YEAR DISCOUNT CT	20	24	14.3%
5 YEAR DISCOUNT CT	214	262	14.3%
HI CAP 44.736 - CMF ²	16,675	20,388	14.3%
HI CAP 44.736 - CMT ²	1,286	1,572	14.3%
HI CAP 44.736 - CIRCUITS ²	747	914	14.3%
SONET OC3 - CT	303	197	-25.0%
SONET OC3 - CMT	229	150	-24.6%
SONET OC3 - CMF	3,678	2,398	-24.8%
SONET OC3 - CIRCUITS	216	141	-25.0%
SONET OC12 - CT	29	19	-24.6%
SONET OC12 - CMT	14	9	-25.5%
SONET OC12 - CMF	1,070	698	-24.8%
SONET OC12 - CIRCUITS	21	14	-24.6%
ETS Basic Port, 100 Mbps	1,590	2,111	20.8%
ETS Channel Termination, 100 Mbps, (300+ feet)	1,009	1,339	20.8%
ETS EVC, Interswitch, 100 Mbps	288	383	20.8%

¹ Includes counts for DS1 3 year & 5 year discount plans.

² Includes counts for DS3 3 year & 5 year discount plans.

VOLUME 3

APPENDIX A

2014 Forecast Line Count Data Request

(For All Common Line Pool Participants)

DIRECT QUESTIONS TO:

Roman Sysuyev

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ACCESS CHARGE TARIFF DEMAND DATA
ITEM DESCRIPTION

Company Name	_____
Holding Company Name	_____
Study Area Code (6 digits)	_____
Contact Name	_____
Contact Telephone Number	_____

GENERAL INSTRUCTIONS AND DESCRIPTIONS OF DATA ITEMS

Main Page

***** IMPORTANT MLB FUSC RATE BANDING CONSIDERATION *****

If your company has fewer than 1,000 access lines, this data request provides an alternative option for reporting single and multi-line counts. There are specific instructions at the bottom of this page that allow you to report your line counts on a more aggregate level.

PLEASE BE AWARE OF THE FOLLOWING: By aggregating your line count data on the website, you will automatically prevent your company from selecting the MLB FUSC Rate Banding Option in the upcoming annual filing. This result follows, since the “minimal” two categories of line data on this website will not provide enough information to enable NECA to set up an MLB FUSC band option for your company.

If your company wishes to select the MLB FUSC Rate Banding Option and has a positive Business Centrex CPT count, you should report Business Centrex CPTs where indicated and exclude that number from the total multi-line count within this data request. If you enter 0 lines for Business Centrex CPTs, you WILL NOT have a MLB FUSC Rate Banding Option available for your company.

The purpose of this data request is to collect study area level line counts that NECA will use to set rates for the July 1, 2014 – June 30, 2015 Test Period.

The request is for historical and projected lines for three successive September 30ths – September 30, 2013, September 30, 2014, and September 30, 2015.

End User revenue projections for the Test Period will be forwarded to USAC, which will use the information to compute Interstate Common Line Support (ICLS) for the July 1, 2014 through June 30, 2015 support period.

Before submitting forecasted line counts for September 2014 and September 2015, we suggest you review the line count forecasts that NECA has recently sent to you as a basis for comparison with your own. Ultimately, your company is responsible for the lines forecasts submitted to NECA for this Forecast Line Count Data Request.

For those study areas that are also submitting **Quarterly Line Count Data**, please complete that data request first. The September 30, 2013 information from the completed **Quarterly Line Count Data Requests** will be automatically rolled-up to the study area level and copied to this – the Forecast Line Count Data Request.

To set rates for its 2014 Annual Access Tariff Filing, NECA requests that companies supply line count information at the following level of detail:

- Residential Customer Premise Terminations (CPTs) – (Exclude Centrex, ISDN, & Lifeline Assistance CPTs)
- Lifeline CPTs
- Single Line Business CPTs – (Exclude ISDN)
- Multi-line Business Customer CPTs – (Exclude Centrex, Total Payphone Lines, ISDN and **DS1 Channel Service Arrangements**)
- Centrex residence and dormitory CPTs
- Centrex business CPTs
- **Total Payphone Lines**
 - **Payphone lines that are assessed FUSC**
- Basic Rate Interface ISDN
- Primary Rate Interface ISDN (**5 lines per arrangement**)
- **DS1 Channel Service Arrangements (5 lines per arrangement)**
- Special Access Surcharge Channels
- **Unbundled Network Element Loops (Average Schedule Companies only) (New)**

Companies that set their own SLC rates are asked to enter those rates into the following two fields:

- Residential and Single Line Business Rates
- Multi-line Business Rates

Companies using NECA's SLC rates are asked to indicate that NECA sets their SLC rates.

Special Instructions for Companies Having Fewer than 1,000 Residential/Single-Line Business lines

Companies with fewer than 1,000 access lines have an alternative option for reporting single and multi-line counts.

If your company chooses this option, please observe the following instructions:

Single-Lines

- Report the sum of Residential Single CPTs, Single Line Business CPTs, Lifeline CPTs, Residential Centrex CPTs, and BRI ISDN Arrangements.

(Note: The double counting of lines should be avoided. For example, it is assumed that Lifeline CPTs are NOT also counted in Residential Single CPTs.)

- In all cases, positive line count information *must* be placed in the residential CPTs Data Line # 1010. However, in those cases where forecasts are not available for future time periods, it is acceptable to copy the historic period (Sept. 30, 2013) value into the two forecast period cells (for 2014 and 2015).

Multi-Lines

- Report the sum of multi-line business CPTs, business Centrex CPTs , total Payphone lines, and PRI ISDN arrangements (scaled by a factor of 5), **and the DS1 Channel Service Arrangements (scaled by a factor of 5)** into the columns of Data Line # 1020.
- In those cases where forecasts are not available for future time periods, it is acceptable to copy the historic period (Sept. 30, 2013) value into the two forecast period cells (for 2014 and 2015).

Please Note: By adopting the under 1,000 lines option, you will automatically prevent your company from selecting the MLB FUSC rate Banding Option. Since the “minimal” two categories of lines data will not provide enough information to enable NECA to develop the MLB FUSC band option for your company.

**NATIONAL EXCHANGE CARRIER ASSOCIATION
FORECAST LINE COUNT DATA REQUEST**

CPT Counts Section

COMMON LINE END USER ELEMENTS	Actual Amounts		Forecasted Amounts	
	Data Line	Sept. 30, 2013	Sept. 30, 2014	Sept. 30, 2015
Resident Customer Premises Terminations – <u>CPTs</u> (Exclude Centrex, ISDN & Lifeline Assistance)	1010			
Lifeline Assistance Customer Premises Terminations – <u>CPTs</u>	1011			
Single-Line Business Customer Premises Terminations – <u>CPTs</u> (Exclude ISDN and mobile telephone)	1012			
Multi-Line Business Customer Premises Terminations – <u>CPTs</u> (Exclude Centrex, total Payphone lines, ISDN and company officials)	1020			
Number of <i>Centrex CPTs</i> (Residential/Dormitory)	1021			
Number of <i>Centrex CPTs</i> (Business)	1022			
Number of total Payphone Lines	1025			
Number of Payphone Lines that are assessed FUSC	1026			

**NATIONAL EXCHANGE CARRIER ASSOCIATION
FORECAST LINE COUNT DATA REQUEST**

BRI and PRI Arrangements Section

COMMON LINE END USER ELEMENTS	Actual Amounts		Forecasted Amounts	
	Data Line	Sept. 30, 2013	Sept. 30, 2014	Sept. 30, 2015
Description				
Number of BRI (Basic Rate Interface) – ISDN <u>Arrangements</u>	1030			
Number of PRI (Primary Rate Interface) - ISDN <u>Arrangements</u>	1040			
Number of DS1 Channel Service <u>Arrangements</u>	1045			

Special Access Channels Section

COMMON LINE END USER ELEMENTS	Actual Amounts		Forecasted Amounts	
	Data Line	Sept. 30, 2013	Sept. 30, 2014	Sept. 30, 2015
Description				
Special Access Surcharge <u>Channels</u>	1050			
Unbundled Network Elements Loop <u>UNE</u>	1055			

**NATIONAL EXCHANGE CARRIER ASSOCIATION
FORECAST LINE COUNT DATA REQUEST**

For companies Filing their own End User Tariffs

SLC Rates Section

(Please select one)

☐ NECA sets rates

☐ My company sets rates

Description	Data Line	Current Rate	Proposed Rate for Test Period Starting July 1, 2014
Residential and Single Line Business Rates*	2010		
Multi-Line Business Rates**	2020		

Please Indicate your SLC Rates for:

(*) The current rate for Residential/ Single-Line Business EUCL is capped at \$6.50 and the proposed rate for Residential/Single-Line Business EUCL is capped at \$6.50.

(**) The rate cap for Multi-line Business is \$9.20.

Comments Section (optional)

Please use the space below for any comments that would be helpful relating to any of your data entry activities on this website for (your telephone company).

**END USER COMMON LINE QUANTITIES
FORECAST LINE COUNT DATA REQUEST
DEFINITIONS**

<u>Data Line</u>	<u>Description</u>
<u>Definition</u>	Customer Premises Termination (CPT): CPTs are commonly referred to as “ <u>Main Station Equivalents</u> ” or “ <u>Billable Units</u> ”. A CPT is a line termination at the customer’s premises.
<u>Data Line</u>	<u>Description</u>
1010	<u>Residence Customer Premises Terminations (CPTs)</u> The number of residence CPTs, as of Sept. 30 th each year that are assessed the residence interstate end user common line (EUCL) charge. If your company offers multi-party service, the number of CPTs will be greater than the number of access lines. If your company does not offer multi-party service, the number of CPTs will equal the number of access lines. <u>Lifeline CPTs, Centrex and ISDN assessed EUCLs should be excluded.</u> Here are three examples of how to count residence CPTs: Example 1: One single-party residence access line = one residence CPT. Example 2: One multi-party residence access line terminating at two customer premises locations (“bridged in field”) = two residence CPTs. Example 3: Two single-party residence access lines terminating at one customer premises = two residence CPTs.
1011	<u>Lifeline Assistance Customer Premises Terminations (CPTs)</u> The number of lifeline assistance service lines as of Sept. 30 th of each year.
1012	<u>Single-Line Business Customer Premises Terminations (CPTs)</u> The number of single-line business CPTs, as of September 30 th each year that are assessed the single line business interstate EUCL charge. Refer to the residence CPT examples above. <u>Exclude ISDN services, and mobile telephone.</u>

**END USER COMMON LINE QUANTITIES
ANNUAL LINE COUNT DATA REQUEST**

<u>Data Line</u>	<u>Description</u>
1020	<p><u>Multi-Line Business Customer Premises Terminations (CPTs)</u></p> <p>The number of Multi-Line Business CPTs as of Sept. 30th each year that are assessed the multi-line business interstate EUCL charge. A CPT is a line termination at the customer's premises. If your company offers multi-party, multi-line business service, the number of CPTs will be greater than the number of multi-line business access lines. If your company does not offer multi-party multi-line business service, the number of CPTs will equal the number of multi-line business access lines. . Exclude <u>ISDN, Centrex, total Payphone lines and company official lines.</u></p> <p>Here are four examples of how to count multi-line business CPTs.</p> <p>Example 1: Two single-party multi-line business access lines = two multi-line business CPTs.</p> <p>Example 2: Ten PBX trunks = ten multi-line business CPTs.</p> <p>Example 3: Five single-party multi-line business access lines terminating at one customer premises location = five multi-line business CPTs.</p> <p>Example 4: Two key system lines = two multi-line business CPTs.</p>
1021	<p><u>Residential (incl. Dormitory) Centrex Customer Premises Terminations (CPTs)</u></p> <p>The number of Residential/Dormitory Centrex CPTs as of Sept 30th each year that are assessed the single line interstate EUCL charge. Centrex service is a local exchange service, provided by a telephone company system located in a telephone company central office, which controls the switching of:</p> <ul style="list-style-type: none">▪ Calls from the exchange network to the Centrex lines▪ Calls from the Centrex lines to the exchange network▪ Intercommunicating calls between Centrex lines.

**END USER COMMON LINE QUANTITIES
ANNUAL LINE COUNT DATA REQUEST**

<u>Data Line</u>	<u>Description</u>
1022	<p><u>Business Centrex Customer Premises Terminations (CPTs)</u></p> <p>The number Business Centrex CPTs as of Sept 30th each year that are assessed the multi-line business interstate EUCL charge. Centrex service is a local exchange service, provided by a telephone company system located in a telephone company central office, which controls the switching of:</p> <ul style="list-style-type: none">▪ Calls from the exchange network to the Centrex lines▪ Calls from the Centrex lines to the exchange network▪ Intercommunicating calls between Centrex lines.
1025	<p><u>Total Payphone Lines</u></p> <p>The number of Payphone lines as of September 30th each year.</p> <p>Total Number of Payphone Service Provider (PSP) lines. This number includes all PSP line counts regardless of whether the lines are assessed Federal Universal Charge (FUSC) or not. PSP customers who do not contribute directly to USF are subject to the standard FUSC surcharge on MLB EUCL charges rather than the higher surcharge under optional MLB EUCL FUSC rate banding, therefore the number of PSP lines has to be separated out from the MLB count (line 1020).</p>
1026	<p><u>Payphone Lines that are assessed FUSC</u></p> <p>The number of Payphone lines as of Sept. 30th each year that are assessed Federal Universal Service Charge (FUSC) because the PSP customer does not contribute directly to USF (i.e., the PSP is de minimis under the FCC's contribution rules). This line count is part of the total Payphone line count.</p> <p>Starting year 2010, this is a separate field. Because PSP customers who contribute directly to USF are not assessed FUSC, the lines that are assessed FUSC have to be reported separately from the total Payphone lines count (line 1025).</p>
1030	<p><u>Basic Rate Interface (BRI) ISDN Arrangements</u></p> <p>The number of BRI ISDN arrangements as of Sept 30th each year. Each BRI ISDN arrangement is capable of deriving up to 2 voice channels and</p>

one data channel. You need to enter the “number of arrangements” on this line, **not** the number of EUCL charges that will be billed.

NECA Tariff no. 5 requires one Residence or one Single-Line Business EUCL charge to be assessed for each BRI ISDN arrangement/service.

Example: If there are three Residence or Single-Line Business BRI ISDN arrangements/services, then enter 3 in line 1030.

1040

Primary Rate Interface (PRI) ISDN Arrangements

The number of PRI ISDN arrangements as of Sept. 30th each year. Although capable of deriving up to 23 voice channels and one data channel from each PRI ISDN, each PRI ISDN arrangement is counted only once for purposes of this data request. You need to enter the “number of arrangements” on this line, **not** the number of EUCL charges that will be billed.

NECA Tariff No. 5 requires five Multi-Line business EUCL charges be assessed for each PRI-ISDN arrangement.

Example: If there are 2 PRI ISDN arrangements/services, enter 2 in line 1040.

**END USER COMMON LINE QUANTITIES
ANNUAL LINE COUNT DATA REQUEST**

Data Line

Description

1045

DS1 Channel Service Arrangements

The number of DS1 Channel Service arrangements as of Sept. 30th each year. The DS1 channel service is an arrangement under which an end user is provided a DS1 (1.544 Mbps) local exchange service by the Telephone Company under the general and/or local exchange tariff(s), and where the end user provides terminating channelization equipment. You need to enter the “number of arrangements” on this line, **not** the number of EUCL charges that will be billed.

NECA Tariff No. 5 requires five Multi-Line business EUCL charges be assessed for each DS1 Channel Service arrangement.

Example: If there are 2 DS1 Channel Service arrangements/services, enter 2 in line 1045.

1050 Number of Special Access Surcharge Channels

The average number of working interstate private line facilities as of Sept. 30th each year connected to a PBX, Centrex CO, Centrex CO-Type or other device capable of interconnecting the private line facility to the local exchange network. The surcharge applies to the closed-end termination of a circuit.

The surcharge applies on a voice grade equivalent basis as shown in the following example:

<u>Special Access Facility</u>	<u>Voice Grade Equivalent</u>		<u>Surcharge</u>		<u>Monthly Charge</u>
Voice Grade	1	x	\$25	=	\$ 25
DS1	24	x	\$25	=	\$600

1055 Unbundled Network Elements Loop (Average Schedule Companies only)

The number of working 1.3 Loops exclusively provided as Unbundled Network Elements (UNE) to carriers for the provision of local exchange service as of Sept. 30th of each year. Please note that line-share UNEs (when, for example, your company uses the lines to provide voice service and bills them as UNE to CLEC providing DSL) SHOULD NOT be included in this field to avoid double counting.

DO NOT include the loops listed in this item in any other categories.

Note: This item is only required for Average Schedule companies. Cost companies should use cost studies to net their UNE revenue instead.

VOLUME 3

APPENDIX B

2014 CAF ICC DATA COLLECTION

Below are the changes in the Data Request for the Test Period 2014-2015 relative to the Data Request for the Test Period 2013-2014

The CAF ICC data collection for the Test Period 2014-2015 has changed from past versions. This year, based on FCC rules, the true-up for TP2012-2013 will be calculated and the Eligible Recovery for TP 2014-2015 will be adjusted to reflect that calculation. In addition, based on FCC clarification, any double recovery adjustments must be quantified and removed from the filed Eligible Recovery amounts for Test Period 2014-2015. Identification of the reason for the double recovery and the dollar impacts for Interstate Switched Access, Interstate Special Access, Interstate Common Line, and other (for all other amounts not recovered through interstate access) are also required.

Based on these changes, the following is a list of new data collection line numbers and descriptions of the data needed on each:

Interstate Screen:

Line 2 – The interstate switched access revenue requirement for the 2014-2015 test period is the base period 2011-2012 revenue requirement *95%*95%*95%, plus pool administration expenses. (Prepopulated, no input needed).

Line 3 – The TP 2013-14 interstate terminating switched access end office rate will be prepopulated. It's important to note that this year the rate is the sum of the local switching and information surcharge rates. (Prepopulated, no input needed).

Line 4 – The proposed interstate terminating switched access end office rate will reflect the first year of a three-year phase down to \$0.005. (Calculation line, no input needed).

Line 14A – Any adjustments to the 2011-2012 interstate baseline switched access revenue requirement due to double recovery must be reported as a negative value on this line. Further information on events causing double recovery and calculation of double recovery may be found in the paper "Cost Changes Requiring Action to Avoid Double Recovery".

Line 14B (four lines) - Detailed, pre-coded descriptions of double recovery amounts entered on Line 14A must be provided on line 14B. The FCC may require documentation to support explanations listed on this line.

Line 14 C (three lines) – This line is for the identification of offsetting double recovery adjustment amounts by category resulting from adjustments to the baseline switched access revenue requirement input on Line 14A. Companies must indicate category(ies) as interstate special access, interstate common line or "Other".

Line 14 – This line will be the TP 2014-2015 interstate Eligible Recovery adjusted to remove double recovery. (Calculation line, no input needed).

Line 14D – This line identifies the true-up adjustment needed for the TP 2012-2013 due to the double recovery amount. (Calculation line, no input needed).

Line 14E – This line is the adjusted interstate switched access Eligible Recovery which will be used in conjunction with TP 2012-2013 revenue and exogenous cost true ups, to calculate the filed CAF ICC Support for TP 2014-2015. (Calculation line, no input needed).

Intrastate Screen:

Line 2 – The intrastate switched access revenue requirement for the 2014-2015 test period is the base period 2011-2012 revenue requirement *95%*95%*95%. (Prepopulated, no input needed).

Line 13 A – Any adjustments to the FY2011 intrastate switched access revenue requirement due to Halo Uncollectibles should be reported on this line. NECA will store data for amounts reported that require an FCC waiver, applying the amount when a waiver is granted.

Line 13 B – This line is for the downward correction of reporting errors for received revenue for the FY2011. No waiver is needed for this adjustment if the amount reported is negative and reduces the frozen baseline for purposes of adjusting Eligible Recovery.

Line 13 C – Report received revenue adjustments to FY2011 related to double recovery on this line. A waiver is not necessary for this reporting because the correction decreases the frozen baseline for purposes of adjusting Eligible Recovery and enables the company to avoid double recovery.

Line 13 D – This line is for the reporting of additional FY2011 revenues which were received after the baseline cutoff date of March 31, 2012 (FCC Order 51.917). NECA will apply the adjustments only after the FCC grants a waiver.

Line 13 – This line is the calculated TP 2014-2015 Intrastate terminating switched access Eligible Recovery adjusted for changes to the FY2011 received revenue. (Calculation line, no input needed).

Line 13 E – The True-up adjustment for intrastate terminating switched access related to TP 2012-13 double recovery. (Calculation line, no input needed).

Line 13F – This line reflects the adjusted TP 2014-15 intrastate eligible recovery that will be used, in conjunction with TP 2012-2013 revenue and exogenous cost true ups, to calculate the filed CAF ICC Support for TP 2014-2015. (Calculation line, no input needed).

Interstate Data Needed at the Study Area Level to Calculate Expected Revenue and Eligible Recovery

1	TY 2011-2012 Frozen Interstate Switched Access Revenue Requirement excluding Pool Administration Expenses	Prepopulated
2	Projected TY 2014-2015 Interstate Switched Access Revenue Requirement + Pool Administration Expenses	Prepopulated
3	TY 2014-2015 Interstate Terminating Switched Access End Office Rate including Rate Increase	Prepopulated
4	Proposed July 1, 2014 Interstate Terminating Switched Access End Office Rate = \$0.005 + 2/3 (Line 3 - \$0.005)	Calculated
5	Proposed TY2014-15 Total Interstate Switched Access Composite Rate	Prepopulated
6	Projected TY 2014-2015 Total Interstate Local Switching Minutes	Prepopulated
7	Projected TY 2014-2015 Total Interstate Switched Access Revenue at the Proposed Rate	Line 5*Line 6
8	Projected TY 2014-2015 Interstate Terminating Switched Access End Office (Local Switching) Minutes	Input
9	Projected TY 2014-2015 Interstate Terminating Switched Access End Office Revenue at Proposed Rate	Line 3*Line 8
10	Projected TY 2014-2015 Interstate Terminating Switched Access End Office Revenue at Proposed Rate with End Office Rate Step-Down	Line 4*Line 8
11	Adjustments to the Total Projected TY 2014-2015 Interstate Switched Access Revenue	Line 9-Line 10
12	Projected TY 2014-2015 Total Interstate Switched Access Revenue at the Proposed Rate with End Office Rate Step-Down	Line 7-Line 11
13	Projected TY 2014-2015 Allocated Interstate Switched Access Revenue	Calculated
14A	Adjustments to the 2011-2012 Interstate Switched Access Revenue Requirement to Avoid Double Recovery	Input
14B	(1) Changes in Accounting or Categorization of Existing Investment	Input
14B	(2) Corrections of Errors	Input
14B	(3) Changes to Study Area Boundaries as a Result of Additions or Removals of Exchanges	Input
14B	(4) Other	Input
14C	Adjustment in 2011-2012 Interstate Special Access Revenue Requirement Related to Double Recovery	Input
14C	Adjustment in 2011-2012 Interstate Common Line Revenue Requirement Related to Double Recovery	Input
14C	Adjustment in 2011-2012 Other Related to Double Recovery	Input
14	Projected TY 2014-2015 Interstate Eligible Recovery	Line 2-Line13+(Line14A)*(0.95) ³
14D	True-Up Adjustment for Interstate Switched Access in 2012-2013 for Double Recovery	14A*0.95
14E	Adjusted TY 2014-2015 Interstate Eligible Recovery	Line14+Line14D
15	Proposed TY 2014-2015 Total Interstate Switched Access Composite Rate	Line 12/Line 6
16	FY 2013 (October 1, 2012 - September 30, 2013) Total Interstate Local Switching Minutes	Prepopulated
17	TY 2014-2015 Growth Rate relative to FY 2013	Calculation [(Line 6/Line 16) ^{12/21-1}]*100

Intrastate Data Needed at the Study Area Level to Calculate Expected Revenue and Eligible Recovery

(A) Calculate the Intrastate Terminating Revenue Requirement for TY 2014-2015

1	FY2011 (October 2010 through September 2011) Received Revenue	Prepopulated
2	95% of Total TY2013-2014 Revenue Requirement (95%*95%*95%* Lines 1)	Calculated

(B) Calculate the TY 2014-2015 Transitional Intrastate Access Service Revenue

Use either (a) or (b):

(a) The composite rate approach: Company should leave columns K through N of intrastate TRP blank and enter the Projected terminating intrastate local switching minutes below in Line 5, and the FY2013 terminating intrastate local switching minutes below in Line 7.

3	Current TY2013-2014 Intrastate Terminating Composite Rate	Prepopulated
4	Proposed TY2014-2015 Intrastate Terminating Composite Rate	Calculated
5	Projected TY2014-2015 Intrastate Terminating Local Switching Minutes	Input
6	Projected Total TY2014-2015 Intrastate Terminating Switched Access Service Revenue	Line 4*Line 5
7	FY 2013 (October 1, 2012 through September 30, 2013) Intrastate terminating Local Switching Minutes	Input
8	TY2014-2015 Terminating Intrastate Local Switching Minutes Growth Rate	Calculated $[(\text{Line 5}/\text{Line 7})^{12/21}-1]*100$

(b) The rate element approach: Enter the FY 2013 demand at the rate element level in Column K and Projected demand at the rate element level in Column L of the TRP. Growth rates of Column M will be calculated.

9	Projected Total TY2014-2015 Intrastate Terminating Switched Access Service Revenue	Sum of Col N
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(C) Calculate the Total TY 2014-2015 Projected Transitional Intrastate Access Service Revenue

10	TY 2014-2015 Net Settlement from the State Pool	Input
11	TY 2014-2015 State Terminating Access Support Rebalancing Fund Revenue	Input
12	Total TY2014-2015 Projected Intrastate Terminating Switched Access Service Revenue	sum (Lines 6(or 9), 10,11)

(E) Calculate the TY 2014-2015 Intrastate Eligible Recovery

13A	Adjustments to FY2011 Received Revenue due to Halo Uncollectibles	Input
13B	Correction of Errors Resulting in Downward Adjustments in FY2011 Received Revenue	Input
13C	Adjustments to FY2011 Received Revenue to Avoid Double Recovery	Input
13D	Adjustments to Include Additional Revenue After the CutOff Date	Input
13	Total TY2014-2015 Intrastate Eligible Recovery	Line 2-Line 12+(13A+13B+13C)*(0.95) ³
13E	True-Up Adjustment for Intrastate Terminating Switched Access in 2012-2013	0.95*(13A+13B+13C)
13F	Adjusted TY2014-2015 Intrastate Eligible Recovery	Line13+Line13E

Intrastate (TRP) Data Needed at the Rate Element Level for Rate Verification and Forecasted Revenue Calculation

D	E	F	G	H	I	J	K	L	M	N
Columns Used for Rate Element Approach										
Intrastate and Interstate Switched Access Rate Elements for Transitional Intrastate Access Service Categories	Unit of Demand (e.g., MOU or miles)	7/1/2014 Interstate Rate	TY 2013-2014 Current Intrastate Rate	7/1/2014 Proposed Intrastate Rate	FY 2011 Intrastate Units: Terminating for Non-Dedicated and Total for Dedicated Elements	Intrastate Price-Out with 7/1/2014 Proposed Intrastate Rate and FY2011 Demand	FY 2013 Intrastate Units: Terminating for Non-Dedicated and Total for Dedicated Elements	TY 2014-2015 Forecasted Intrastate Units	Intrastate Units Growth Rates %: $[(L/K)^{(12/21)} - 1] * 100$	TY 2014-2015 Forecasted Intrastate Revenue
Input	Input	Prepopulated	Prepopulated	Input	Prepopulated	H*1	Input	Input	Calculated	H*L
** Terminating End Office Access Service**										
Terminating End Office, Premium, per access minute	Mou									
Terminating End Office, Non-Premium, per access minute	Mou									
Terminating Tandem Switched Transport Service										
Terminating Tandem Switched Transport Facility	Minute per Mile									
Terminating Tandem Switched Termination	Minute per Termination									
Terminating Tandem Switching	Minute per Tandem									
** Originating and Terminating Dedicated Transport Access Service**										
Entrance Facility, Per Termination	Circuit									
- Voice Grade Two Wire	Circuit									
- Voice Grade Four Wire	Circuit									
- High Capacity DS1	Circuit									
- High Capacity DS3	Circuit									
- Synchronous Optical Channel OC3	Circuit									
- Synchronous Optical Channel OC12	Circuit									
- ESALT 2 Mbps	Circuit									
- ESALT 10 Mbps	Circuit									
- ESALT 50 Mbps	Circuit									
Direct Trunked Transport Facility, Per Mile	Circuit Miles									
- Voice Grade	Circuit Miles									
- High Capacity DS1	Circuit Miles									
- High Capacity DS3	Circuit Miles									
- Synchronous Optical Channel OC3	Circuit Miles									
- Synchronous Optical Channel OC12	Circuit Miles									
- ESALT 2 Mbps DTF-E1	Circuit Miles									
- ESALT 2 Mbps DTF-E2	Circuit Miles									
- ESALT 2 Mbps DTF-E3	Circuit Miles									
- ESALT 2 Mbps DTF-E4	Circuit Miles									
- ESALT 10 Mbps DTF-E1	Circuit Miles									
- ESALT 10 Mbps DTF-E2	Circuit Miles									
- ESALT 10 Mbps DTF-E3	Circuit Miles									
- ESALT 10 Mbps DTF-E4	Circuit Miles									
- ESALT 50 Mbps DTF-E1	Circuit Miles									
- ESALT 50 Mbps DTF-E2	Circuit Miles									
- ESALT 50 Mbps DTF-E3	Circuit Miles									
- ESALT 50 Mbps DTF-E4	Circuit Miles									
Direct Trunked Transport Termination, Per Termination	Circuit terms									
- Voice Grade	Circuit terms									
- High Capacity DS1	Circuit terms									
- High Capacity DS3	Circuit terms									
- Synchronous Optical Channel OC3	Circuit terms									
- Synchronous Optical Channel OC12	Circuit terms									
- ESALT 2 Mbps	Circuit terms									
- ESALT 10 Mbps	Circuit terms									
- ESALT 50 Mbps	Circuit terms									
Multiplexing, Per Arrangement	Circuits									
- DS3 to DS1	Circuits									
- DS1 to Voice	Circuits									
Customer Node, Per Node	Node									
- OC3 155.52 Mbps	Node									
- OC12 622.08 Mbps	Node									
Customer Premises Port, Per Port	Port									
- OC3 155.52 Mbps	Port									
- STS-1 51.84 Mbps	Port									
- DS3 44.736 Mbps	Port									
- DS1 1.544 Mbps	Port									
Add/Drop Multiplexing Central Office Port, Per Port	Port									
- OC3 155.52 Mbps	Port									
- DS3 44.736 Mbps	Port									
- DS1 1.544 Mbps	Port									
Network Blocking, Per Blocked Call, Applied to FG D only	Call									
Common Channel Signaling Network Connection										
Signaling Mileage Facility, Per Mile	Minute per Mile									
Signaling Mileage Termination, Per Termination	Termination									
Signaling Entrance Facility, Per Facility	Termination									
STP Port, Per Port	Port									
ESALT Real Time CoS/QoS, Per ESALT DTF-E1 Facility	Facility									
- ESALT 2 Mbps	Facility									
- ESALT 10 Mbps	Facility									
- ESALT 50 Mbps	Facility									
ESALT Entrance Facility Protection, Per ESALT Entrance Facility	Circuit									
- ESALT 2 Mbps	Circuit									
- ESALT 10 Mbps	Circuit									
- ESALT 50 Mbps	Circuit									

Intrastate (TRP) Data Needed at the Rate Element Level for Rate Verification and Forecasted Revenue Calculation

D	E	F	G	H	I	J	K	L	M	N
Columns Used for Rate Element Approach										
Intrastate and Interstate Switched Access Rate Elements for Transitional Intrastate Access Service Categories	Unit of Demand (e.g., MOU or miles)	7/1/2014 Interstate Rate	TY 2013-2014 Current Intrastate Rate	7/1/2014 Proposed Intrastate Rate	FY 2011 Intrastate Units: Terminating for Non-Dedicated and Total for Dedicated Elements	Intrastate Price-Out with 7/1/2014 Proposed Intrastate Rate and FY2011 Demand	FY 2013 Intrastate Units: Terminating for Non-Dedicated and Total for Dedicated Elements	TY 2014-2015 Forecasted Intrastate Units	Intrastate Units Growth Rates %: $[(L/K)^{(12/21)} - 1] * 100$	TY 2014-2015 Forecasted Intrastate Revenue
Input	Input	Prepopulated	Prepopulated	Input	Prepopulated	H*1	Input	Input	Calculated	H*L
Nonrecurring Charges										
Local Transport - Installation, per Entrance Facility										
- Voice Grade Two Wire	Facility									
- Voice Grade Four Wire	Facility									
- High Capacity DS1	Facility									
- High Capacity DS3	Facility									
- Synchronous Optical Channel OC3	Facility									
- Synchronous Optical Channel OC12	Facility									
- ESALT 2 Mbps	Facility									
- ESALT 10 Mbps	Facility									
- ESALT 50 Mbps	Facility									
Interim NXX Translation Per Order, per Lata or Market Area	Order									
FGC and FGD Conversion of Multifrequency Address Signaling to S57 Signaling or S57 Signaling to Multifrequency Address Signaling, per 24 trunks converted or fraction thereof on a per order basis	Order									
Trunk Activation, per 24 trunks activated or fraction thereof on a per order basis	Order									
ESALT Direct Trunked Termination, per ESALT Direct Trunked Termination installed	Order									
Flexible Automatic Number Identification (Flex ANI), per End Office, per CIC	End Office	NONE								
ESALT Entrance Facility Protection, per ESALT Entrance Facility	Facility									
Access Ordering										
Access Order Charge, per order	Order									
Service Date Change Charge, per order	Order									
Design Change Charge, per order	Order									
Miscellaneous Service Order Charge, per occurrence	Occurrence									
Additional Engineering, Each Half Hour, or Fraction Thereof										
(A) Basic Time, per engineer	Engineer									
(B) Overtime, per engineer	Engineer									
(C) Premium Time, per engineer	Engineer									
Additional Labor Period										
(A) Installation or Repair										
- Overtime, per technician	Technician									
- Premium Time, per technician	Technician									
(B) Stand by										
- Basic Time, per technician	Technician									
- Overtime, per technician	Technician									
- Premium Time, per technician	Technician									
(C) Testing and Maintenance, Installation and Repair										
- Basic Time, per technician	Technician									
- Overtime, per technician	Technician									
- Premium Time, per technician	Technician									
Central Office Maintenance Technician										
- Basic Time, per technician	Technician									
- Overtime, per technician	Technician									
- Premium Time, per technician	Technician									
Miscellaneous Services										
(B) Additional Automatic Testing- Switched Access, Per Test										
- Gain-Slope Tests	Test									
- C-Notched Noise Tests	Test									
- 1004 Hz loss	Test									
- C-Message Noise	Test									
- Balance (return loss)	Test									
(G) Telecommunications Service Priority, Per Arrangement, per service arranged	Arrangement									
(H) Controller Arrangement, Per Arrangement	Arrangement									
(I) Presubscription, per exchange service line or trunk per InterLATA PIC change										
- Submitted manually	PIC Change									
- Submitted electronically	PIC Change									
- Submitted manually with a simultaneous LPIC change	PIC Change									
- Submitted electronically with a simultaneous LPIC change	PIC Change									
(K) Blocking Service										
per exchange service line or trunk or FGA Switched Access line	Line									
(L) Billing Name and Address Service										
- Per BNA order	Order									
- Per BNA record	Record									
- Optional Magnetic Tape, per magnetic tape	Tape									
- Optional Format Programming Charge, per half hour or fraction thereof	Time									
(M) Originating Line Screening (OLS) Service, per exchange service line	Line									
(N) Coin Supervision Additive Service, per exchange service line	Line									
Total								0		0

Reciprocal Comp Data Needed to Calculate Forecasted Revenue and Eligible Recovery

CMRS Traffic

1	2	3	4	5	6	7	8	9
FY2011 (October 2010 through September 2011) Net CMRS Reciprocal Compensation Received Revenue	TY 2014 - 2015 Terminating CMRS Reciprocal Compensation Minutes	TY 2014 - 2015 Terminating CMRS Reciprocal Compensation Composite Rate	TY 2014 - 2015 Originating CMRS Reciprocal Compensation Minutes	TY 2014 - 2015 Originating CMRS Reciprocal Compensation Composite Rate	TY 2014 - 2015 Terminating CMRS Reciprocal Compensation Revenue	TY 2014 - 2015 Originating CMRS Reciprocal Compensation Expense	TY 2014 - 2015 Net CMRS Forecasted Reciprocal Compensation Revenue	TY 2014 -2015 Net CMRS Reciprocal Compensation Revenue Requirement
Prepopulated	Input	Input	Input	Input	Line 2 * Line 3	Line 4 * Line 5	Line 6- Line 7	Calculated

Non-CMRS Traffic

10	11	12	13	14	15	16	17	18
FY2011 (October 2010 through September 2011) Net Non-CMRS Reciprocal Compensation Received Revenue	TY 2014 - 2015 Terminating Non-CMRS Reciprocal Compensation Minutes	TY 2014 - 2015 Terminating Non-CMRS Reciprocal Compensation Composite Rate	TY 2014 - 2015 Originating Non-CMRS Reciprocal Compensation Minutes	TY 2014 - 2015 Originating Non-CMRS Reciprocal Compensation Composite Rate	TY 2014 - 2015 Terminating Non-CMRS Reciprocal Compensation Revenue	TY 2014 - 2015 Originating Non-CMRS Reciprocal Compensation Expense	TY 2014 - 2015 Net Non-CMRS Forecasted Reciprocal Compensation Revenue	TY 2014 -2015 Net Non-CMRS Reciprocal Compensation Revenue Requirement
Prepopulated	Input	Prepopulated	Input	Prepopulated	Line 11 * Line 12	Line 13 * Line 14	Line 15 - Line 16	Calculated

Net Reciprocal Compensation Eligible Recovery

19	19A	19B	19C	20	20A	20B	20C	21
CMRS Eligible Recovery	Adjustments to FY2011 Net CMRS Reciprocal Compensation Received Revenue	Adjustments to Include Additional Revenue After the CutOff Date	Adjusted CMRS Eligible Recovery	Non-CMRS Eligible Recovery	Adjustments to FY2011 Net Non-CMRS Reciprocal Compensation Received Revenue	Adjustments to Include Additional Revenue After the CutOff Date	Adjusted Non-CMRS Eligible Recovery	Total Adjusted Recip Comp Eligible Recovery
Line 9 - Line 8	Input	Input	Line19+Line19A*0.95 ³ +Line19A*0.95	Line 18-Line 17	Input	Input	Line 20+Line 20A*0.95 ³ +Line20A*0.95	Line 19C+Line 20C

CAF ICC Data Collection Instructions

Interstate Data Collection

Line	Data Elements	Instructions
1	TY 2011-2012 Frozen Interstate Switched Access Revenue Requirement excluding Pool Administration Expenses	NECA will populate interstate switched access revenue requirement for base period 2011-2012 excluding pool administration expenses.
2	TY 2014-2015 Interstate Switched Access Revenue Requirement + Pool Administration Expenses	NECA will populate interstate switched access revenue requirement for TS pool members for test period July 2014 - June 2015 based on 95% *95% *95* the frozen interstate switched access revenue requirement for July 2011 - June 2012 plus pool administration expenses.
3	TY 2014-2015 Interstate Terminating Switched Access End Office Rate including Rate Increase	NECA will prepopulate the current end office rate plus the 1.429% rate increase due to pool composition changes. The end office is the sum of the local switching rate and information surcharge. (Information surcharge is per 100 minutes.)
4	Proposed July 1, 2014 Interstate Terminating Switched Access End Office Rate = 0.005 + 2/3 (Line 3 - 0.005)	The proposed interstate Terminating End Office Access Rate for test period 2014-2015 is \$0.005 per minute plus two-thirds of the difference between the current Terminating End Office Rate and \$0.005 per minute. NECA needs to raise the current Terminating End Office Rate by 1.429% as a result of companies exiting the pool effective 7/1/2014.
5	Proposed TY2014-15 Total Interstate Switched Access Composite Rate	NECA will prepopulate the total interstate switched access composite rate which is the total of 5 months (August 2013-December 2013) revenue divided by total local switching minutes from NECA settlement system. NECA needs to raise the interstate switched access rates by 1.429% as a result of companies exiting the pool effective 7/1/2014.
6	TY 2014 - 2015 Total Forecasted Interstate Local Switching Minutes	NECA will populate the forecasted interstate local switching minutes for test period July 2014 - June 2015 for TS pool members. NECA will not adjust its forecasts for VoIP assigned to interstate. Please adjust NECA forecasts for this effect. NECA has adjusted the forecasts for uncollected minutes. Please review your interstate MOU forecast, taking into account recent market conditions. For this filing, there is no FCC imposed restriction that limits the demand loss to 15%. However, companies should be prepared to support and explain large forecasted demand losses in the study. Company can override the forecast with their own forecasted minutes.
7	Projected TY 2014-2015 Total Interstate Switched Access Revenue at the Proposed Rate	NECA will calculate the total projected interstate switched access revenue at the current rate. Line 5* Line 6
8	Projected TY 2014-2015 Interstate Terminating Switched Access End Office Minutes	Please provide the interstate terminating switched access end office minute forecasts for test period 2014-2015.
9	Projected TY 2014-2015 Interstate Terminating Switched Access End Office Revenue at Proposed Rate	NECA will calculate the projected interstate terminating switched access end office revenue at the proposed rate. Line 3* Line 8
10	Projected TY 2014-2015 Interstate Terminating Switched Access End Office Revenue at Proposed Rate with End Office Rate Step-Down	NECA will calculate the projected interstate terminating switched access end office revenue at the proposed rate with End Office Rate Step-Down. Line 4* Line 8
11	Adjustments to the Total Projected Interstate Switched Access Revenue	The difference in interstate terminating switched access end office revenue between current and proposed rates. Line 9-Line 10.
12	Projected TY 2014-2015 Total Interstate Switched Access Revenue at the Proposed Rate with End Office Rate Step Down	Projected total interstate switched access revenue for test period 2014-2015, taking into account the terminating end office rate step-down. Line 7-Line 11.
13	TY 2014-2015 Forecasted Allocated Interstate Switched Access Revenue	NECA will allocate the interstate switched access revenue in Line 12 based on each company's share of the TY2011-2012 frozen revenue requirement adjusted for pool composition, per FCC's August 31, 2012 Order.
14A	Adjustments to the 2011-2012 Interstate Switched Access Revenue Requirement	Please enter the adjustments to the 2011-2012 interstate switched access revenue requirement to avoid double recovery as a result of re-categorizing certain equipment or other reasons as described in the March 6, 2014 paper on "Cost Changes Requiring Action to Avoid Double Recovery". These are reductions and should be entered as negative numbers.
14B	Adjustments to the 2011-2012 Interstate Switched Access Revenue Requirement	Company must identify the reasons by selecting the check box. Please provide the explanations in the comment box if the reason is "other". Please be prepared to provide supporting documentation and detailed calculations in case the FCC requires it.
14C	Adjustments to the 2011-2012 Interstate Switched Access Revenue Requirement	Please enter the changes in interstate special access, interstate common line, or "Other" calculated per March 6, 2014 Double Recovery paper. Companies are not allowed to change the frozen revenue requirement if waiver petitions are still pending.
14	Projected TY 2014-2015 Interstate Eligible Recovery	Line 2-Line13+(Line14A)*(0.95) ³
14D	True-Up Adjustment for Interstate Switched Access in 2012-2013 for Double Recovery	Prepopulated the amount of (14A*0.95).
14E	Adjusted TY 2014-2015 Interstate Eligible Recovery	Line14+Line14D
15	Proposed TY 2014-2015 Total Interstate Switched Access Composite Rate	Line 12/Line 6 (Projected total interstate switched access revenue divide by projected total local switching minutes). This rate will be used to compare the effective non-CMRS reciprocal compensation rate.
16	FY 2013 (October 1, 2012 - September 30, 2013) Total Interstate Local Switching Minutes	NECA will prepopulate the FY 2013 interstate local switching minutes based on the data in the Settlement System.
17	TY 2014-2015 Growth Rates relative to FY 2013	The growth rate is calculated using the formula: [(Line 6/Line 16)^(12/21)-1]*100

Intrastate Data Collection

Intrastate Tariff Review Plan (TRP)

Please note the following:

(A)	A Rate-of-Return Carrier shall establish separate originating and terminating interstate and intrastate rate elements for all components within interstate End Office Access Service. For fixed charges, the Rate-of-Return Carrier shall divide the amount based on relative originating and terminating end office switching minutes. If sufficient originating and terminating end office switching minute data is not available, the carrier shall divide such charges equally between originating and terminating elements. A Rate-of-Return Carrier that has intrastate rates lower than its functionally equivalent interstate rates is not allowed to make any intrastate tariff filing or intrastate tariff revisions raising such rates. (FCC 91.509 (d)(4))
(B)	If you choose to use the composite rate approach of forecasting demand (Option A), please leave Columns K through N blank, enter the forecasted Terminating local switching minutes on the intrastate screen of the data request (Line 5). If you choose to use the approach of forecasting demand at the rate element level (Option B), enter the forecasted demand for TY2014-2015 in Column L which will be used to derive the TY2014-2015 intrastate terminating switched access forecasted revenue (Column N).

Line	Data Elements	Instructions
1	FY2011 (October 2010 through September 2011) Total Received Revenue including Net Settlement from the State Pool and State Terminating Access Support Rebalancing Fund	NECA will prepopulate the fiscal year (October 1, 2010 through September 30, 2011) total actual received revenue which is used as revenue requirement for the base period. For companies in a state pool, Line 1 includes the amount of "contribution to" or "receipts from" the state pool associated with terminating switched access traffic for the fiscal year 2011. Line 1 also includes intrastate terminating access revenue companies receive from a state fund that is designed to offset rates and revenues associated with intrastate access billed to interexchange carriers for fiscal year 2011. Line 1 is the sum of Lines 1-3 in the intrastate section of the previous data collection.
2	TY2014-2015 Intrastate Terminating Revenue Requirement	The TY2014-2015 intrastate terminating revenue requirement is $95\% * 95\% * 95\%$ the total received revenue for the base period of 2011-2012 (Line 1).
3	Current TY2013-2014 Intrastate Terminating Composite Rate	NECA will pre-populate the current intrastate terminating composite rate based on the 2013-2014 data collection. The current composite rate is the sum of the price out at July 2013 intrastate terminating rates times the FY2011 demand at the rate element level and divided by the FY2011 local switching minutes.
4	Proposed TY2014-2015 Intrastate Terminating Composite Rate	The proposed intrastate terminating composite rate for the test period 2014-2015 is the sum of price out at the July 2014 intrastate terminating rates times the FY2011 demand at the rate element level, divided by the FY2011 local switching minutes (sum of column J on the intrastate TRP divided by the end office minutes in column I). The composite rate should include the rate change in End Office rate following the FCC Order.
5	Projected TY 2014-2015 Intrastate Terminating Local Switching Minutes	If you use the composite rate approach to project the expected revenue, enter intrastate terminating local switching minutes for the test period July 2014-June 2015. Please adjust the minutes downward to account for uncollected minutes. Please provide the % of uncollected minutes in the comment section. Please ensure the intrastate terminating VoIP minutes are included if there are any. You can leave this line blank, if you chose to enter forecasted demand at the rate element level on the TRP (column L). For this filing, there is no FCC imposed restriction that limits the demand loss to 15%. However, companies should be prepared to support and explain large forecasted demand losses in the study.
6	Projected TY 2014-2015 Intrastate Access Service Revenue - Use the composite rate approach	Line 4 * Line 5 if you use the composite rate approach.
7	FY 2013 Terminating Intrastate Local Switching Minutes	Please enter the terminating intrastate local switching minutes from October 1, 2012 through September 30, 2013 in Line 7 or column K on the intrastate TRP. Please ensure the intrastate terminating VoIP minutes are included if there are any, so the growth rate is calculated correctly.
8	TY2014-2015 Terminating Intrastate Local Switching Minutes Growth Rate	The growth rate for TY2014-2015 is calculated using the formula: $[(\text{Line 5}/\text{Line 7})^{(12/21)-1}] * 100$
9	Projected TY 2014-2015 Intrastate Access Service Revenue - Using the rate element approach	If you entered the forecasted demand at the rate element level (column L), this is the sum of column N on the TRP.
10	TY 2014-2015 Net settlement from the State Pool	For companies in a state pool, please enter the projected amount of "contribution to" or "receipts from" the state pool associated with terminating switched access traffic for test period 2014-2015. Contribution to the pool should be entered as a negative number.
11	TY 2014-2015 State Terminating Access Support Rebalancing Fund Revenue to be Received	Please include intrastate terminating access revenues companies will receive from a state fund, that is designed to offset rates and revenues associated with intrastate access billed to interexchange carriers for TY 2014-2015.
12	Total TY2014-2015 Projected Intrastate Terminating Switched Access Service Revenue	Sum of Lines 6 (or 9), 10 and 11.
13A	Adjustments to FY2011 Received Revenue due to Halo Uncollectibles	Company is requested to input the adjustments to the FY2011 received revenue. The adjustments include those waivers filed with the FCC and those not requiring waivers. In cases where a waiver is not necessary, NECA will apply the adjustment immediately. In cases where a waiver is needed, NECA will collect and store the adjustment, but will only apply it in the event the waiver is granted. The waivers include Halo revenues previously classified as uncollectibles. The adjustments must equal the amounts in the waivers. The adjustments to FY2011 received revenue are used to adjust Intrastate Eligible Recovery (13).
13B	Correction of Errors Resulting in Downward Adjustments in FY2011 Received Revenue	Company does not need to file waivers if they need to decrease their intrastate baseline received revenue to correct errors made earlier (Line 13B). The adjustments to FY2011 received revenue are used to adjust Intrastate Eligible Recovery (13).

13C	Adjustments to FY2011 Received Revenue to Avoid Double Recovery	Company does not need to file waivers if they need to decrease their intrastate baseline received revenue to avoid double-recovery. Reductions should be entered as negative numbers. Please upload explanations in pdf to the website if company enters an amount in this line. Please be prepared to provide the supporting documentation and detailed calculations in case the FCC requests it. The adjustments to FY2011 received revenue are used to adjust Intrastate Eligible Recovery (13).
13D	Adjustments to Include Additional Revenue After the CutOff Date	Inclusion of additional revenue after the cutoff date as of March 31, 2012 (FCC Order 51.917) requires a waiver. NECA will collect and store the adjustment, but will only apply it in the event the waiver is granted. The adjustments to FY2011 received revenue are used to adjust Intrastate Eligible Recovery (13).
13	Total TY 2014-2015 Intrastate Eligible Recovery	Line 2-Line 12+(13A+13B+13C)*(0.95) ³
13E	True-Up Adjustment for Intrastate Terminating Switched Access in 2012-2013	0.95*(13A+13B+13C)
13F	Adjusted TY2014-2015 Intrastate Eligible Recovery	Line13+Line13E

Exchange Level Data Collection

Exchange Level Data Request has not changed. The exchange/zone names and local charges will be prepopulated based on the previous data collection. Please update the local charges if the rates as of January 1, 2014 are HIGHER than the prepopulated rates. Please enter the projected residential access lines at the exchange level for the test period 2014-2015. The sum of residential lines excluding Lifelines across exchanges must match the amount of forecasted residential lines excluding Lifelines at the study area level. NECA will pre-populate the residential lines excluding Lifelines, Single Line Business and Multi-Line Business Lines at the study area level for the test period 2014-15. Company can override with its own forecasts.

Reciprocal Compensation Data Collection

CMRS

1	FY2011 (October 2010 through September 2011) Net CMRS Reciprocal Compensation Received Revenue	NECA will prepopulate the October 1, 2010 through September 30, 2011 Net CMRS Reciprocal Compensation Received Revenue from the previous study.
2	TY 2014-2015 Terminating CMRS Reciprocal Compensation Minutes	Enter projected terminating non Bill and Keep CMRS reciprocal compensation minutes for test period July 2014-June 2015. Please adjust the minutes downward to account for uncollected minutes. If the contracts do not have a "Change in Law" provision, please enter the expiration date in the comment section and take into consideration the expiration date in the forecast.
3	TY 2014-2015 Terminating CMRS Reciprocal Compensation Composite Rate	Enter the non-Bill and Keep Terminating CMRS rate based on the contracts provided that do not have a "Change in Law" provision.
4	TY 2014-2015 Originating CMRS Reciprocal Compensation Minutes	Enter projected originating non Bill and Keep CMRS reciprocal compensation minutes for test period July 2014-June 2015. If the agreements do not have a "Change in Law" provision, please enter the expiration date in the comment section and take into consideration the expiration date in the forecast.
5	TY 2014-2015 Originating CMRS Reciprocal Compensation Composite Rate	Enter the non-Bill and Keep Originating CMRS rate based on the contracts provided that do not have a "Change in Law" provision.
6	TY 2014-2015 Terminating CMRS Reciprocal Compensation Revenue	Line 2 * Line 3
7	TY 2014-2015 Originating CMRS Reciprocal Compensation Expense	Line 4 * Line 5
8	TY 2014-2015 Net Expected CMRS Reciprocal Compensation Revenue	Line 6 - Line 7
9	TY 2014-2015 Net CMRS Reciprocal Compensation Revenue Requirement	NECA will prepopulate the TY 2014-2015 Net CMRS Reciprocal Compensation Revenue Requirement. The test period 2014-2015 revenue requirement is 95% * 95% * 95% * the frozen net CMRS revenue (reciprocal compensation revenue minus expense) for the period of 2011-2012.

NonCMRS

10	FY2011 (October 2010 through September 2011) Net Non-CMRS Reciprocal Compensation Received Revenue	NECA will prepopulate the October 1, 2010 through September 30, 2011 Net NonCMRS Reciprocal Compensation Received Revenue from the previous study.
11	TY 2014-2015 Terminating Non-CMRS Reciprocal Compensation Minutes	Enter projected terminating non-CMRS reciprocal compensation minutes for test period July 2014-June 2015. Please adjust the minutes downward to account for uncollected minutes.
12	TY 2014-2015 Terminating Non-CMRS Reciprocal Compensation Composite Rate	NECA will prepopulate the terminating non-CMRS reciprocal compensation rate which is the minimum of interstate composite rate and the effective terminating non-CMRS reciprocal compensation rate. (The proposed interstate composite rate is shown on Line 15 of the interstate switched access screen.) The effective terminating non-CMRS reciprocal compensation rate is based on the 2013-2014 CAFICC data collection. Company can override with its own rate.
13	TY 2014-2015 Originating Non-CMRS Reciprocal Compensation Minutes	Enter projected originating non-CMRS reciprocal compensation minutes for test period July 2014 - June 2015.
14	TY 2014-2015 Originating Non-CMRS Reciprocal Compensation Composite Rate	NECA will prepopulate the originating non-CMRS reciprocal compensation rate which is the minimum of the interstate composite rate and the effective originating non-CMRS reciprocal compensation rate. (The proposed interstate composite rate is shown on Line 15 of interstate switched access screen.) The effective originating non-CMRS reciprocal compensation rate is based on the 2013-2014 CAFICC data collection. Company can override with its own rate.
15	TY 2014-2015 Terminating Non-CMRS Reciprocal Compensation Revenue	Line 11 * Line 12
16	TY 2014-2015 Originating Non-CMRS Reciprocal Compensation Revenue	Line 13 * Line 14
17	TY 2014-2015 Net Expected Non-CMRS Reciprocal Compensation Revenue	Line 15 - Line 16
18	TY 2013-2014 Net Non-CMRS Reciprocal Compensation Revenue Requirement	NECA will prepopulate the TY 2014-2015 Net Non-CMRS Reciprocal Compensation Revenue Requirement. The test period 2014-2015 revenue requirement is 95% * 95% * 95% * the frozen net Non-CMRS revenue (reciprocal compensation revenue minus expense) for the period of 2011-2012.

Reciprocal Compensation Eligible Recovery

19	CMRS Eligible Recovery	Line 9-Line 8
19A-19C	Adjustments to FY2011 Net CMRS Reciprocal Compensation Received Revenue and Adjusted CMRS Eligible Recovery	Please enter the adjustments to FY2011 Net CMRS Reciprocal Compensation Received Revenue. The adjustments include those waivers filed with the FCC and those not requiring waivers. In cases where a waiver is not necessary, NECA will apply the adjustment immediately. In cases where a waiver is needed, NECA will collect and store the adjustment, but will only apply it in the event the waiver is granted. The waivers include corrections of the base period revenues, or inclusion of additional revenue after the cutoff date (Line 19B). Company does not need to file waivers if they would like to decrease their FY2011 revenue to correct errors made earlier (Line 19A). Reductions should be entered as negative numbers, and the adjustments must equal the amounts in the waivers. Company must upload the supporting documentation to the website in pdf format. The adjustments to FY2011 received revenue are used to adjust CMRS Eligible Recovery (Lines 19C).
20	Non-CMRS Eligible Recovery	Line 18-Line 17
20A-20C	Adjustments to FY2011 Net Non-CMRS Reciprocal Compensation Received Revenue and Adjusted Non-CMRS Eligible Recovery	Please enter the adjustments to FY2011 Net Non-CMRS Reciprocal Compensation Received Revenue. The adjustments include those waivers filed with the FCC and those not requiring waivers. In cases where a waiver is not necessary, NECA will apply the adjustment immediately. In cases where a waiver is needed, NECA will collect and store the adjustment, but will only apply it in the event the waiver is granted. The waivers include corrections of the base period revenues, or inclusion of additional revenue after the cutoff date (Line 10B). Company does not need to file waivers if they would like to decrease their FY2011 received revenue to correct errors made earlier (Line 10A). When an adjustment is applied, NECA will recalculate the FY2011 received revenue. Reductions should be entered as negative numbers, and the adjustments must equal the amounts in the waivers. Company must upload the supporting documentation to the website in pdf format. The adjustments to FY2011 received revenue are used to adjust Non CMRS Eligible Recovery (Lines 20C).
21	Total Adjusted Reciprocal Compensation ER	Line 19C+Line 20C

Exogenous Costs

Please enter the interstate portion of the exogenous costs (TRS, Regulatory, and NANPA increments) for the test year 2014-2015. These amounts represent the portion of fee increases that would normally be recovered through increases in interstate switched access rates that are now capped pursuant to the <i>USF/ICC Transformation Order</i> . These items will be blocked for data entry for Average Schedule companies because there is no settlement formula to recover these amounts.	
--	--

Access Lines Data Needed to Calculate ARC Revenue
at the Study Area Level

Study Area Code	TY 2014-15 Residential Lines excluding Life Lines	TY 2014- 2015 Single Line Business Lines	TY 2014-2015 Multi- Line Business Lines
	Prepopulated	Prepopulated	Prepopulated

Local Charges Needed to Calculate Residential ARC Rates at the Exchange and Zone (Plan) Level

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Study Area Code	Exchange Name/Zone Name	Residential Access Lines	Lifeline Lines	Residential Lines excluding Lifelines (Line3 Line4)	Current Residential Flat Rate	Additional Basic Local Rate Charges if applicable	Mandatory Expanded Calling	Fed Subscriber Line Charge	State Subscriber Line Charge	State USF Surcharge	County E-911 Surcharge	State E-911 (e.g. fire & police)	TRS & other hearing impaired Surcharges	Total Residential Charges (sum Lines 6 thru14)	Amount above/(below) \$30.00 Rate Ceiling
Study Area 1															
Study Area 1															
Study Area 1															
Study Area 1															
Study Area 1	etc.														
Study Area 2															
Study Area 2															
Study Area 2	etc.														
Study Area 3															
Study Area 3															
Study Area 3															
Study Area 3															
Study Area 3	etc.														

etc.

Exchange Area/Rate Zone Data Needed for Residential Benchmarks

Following the FCC guideline, the gap above/below rate ceiling of \$30.00 will determine the Residential ARC amount. For company with Eligible Recovery, the FCC allowed an annual residential and single-line business ARC rate increase of \$0.50 and an annual multiline business ARC rate increase of \$1.00 and a limit of \$12.20 applies to Multi-Line Business Lines plus SLC.

Please update the local tariff information if the rates on January 1, 2014 are higher than the prepopulated rates as of January 1, 2013. Company does not have to update the local rate elements if local charges remain the same as January 1, 2013. Please enter forecasted Residential lines and Lifelines for test period 2014-2015.

Instructions		
Line	Data Elements	Descriptions
1	Study Area Code	The study area code you have entered
2	Exchange Name/Zone Name	For each exchange and zone combination, please enter the exchange name, followed by "/", and then the zone name, as they appear in your local exchange tariff.
3	Residential Lines	Please enter forecasted average annual residential lines including Lifelines for the test period July 2014 - June 2015. Residential lines include all lines assessed the residential end user common line charge. Please make an adjustment to residential lines to account for only half of the ARC applying to vacation lines. For instance, if there are 40 lines that have the vacation rate for three months a year (3/12 of the year), reduce the line count by 5 ($40 * 1/2 * 3/12$).
4	Lifelines	Annual average Lifelines for the test period July 2014 - June 2015.
5	Residential Lines excluding Lifelines	Line 3- Line 4
6	Residential Flat Rate	1FR or R1 Per Tariff or Price List. If Flat Rate service not available, enter Average Local Measured Service billed amount per customer.
7	Additional Local Rate Charges if applicable	Additional Basic Local Rate charges such as Touch Tone & Zone/Mileage Charges applicable to Residential Local Service only if they are mandatory. Please calculate and enter the charges per line.
8	Mandatory Expanded Calling	Rate per Tariff or Price List.
9	Federal Subscriber Line Charge	Per Tariff
10	State Subscriber Line Charge	Per Tariff or Price List.
11	State USF Surcharge	Per Tariff or Price List.
12	County E-911 Surcharge	Per County Contract.
13	State E-911 (e.g. Fire & Police)	Per State Contract or other state entity
14	TRS & Other Hearing Impaired Surcharges	Per Tariff or Price List
15	Total Residential Charges	Sum Lines 6 through 14.
16	Amount above/(below) \$30.00 Rate Ceiling	\$30 - Line 15

VOLUME 3

APPENDIX C

2014 ADVANCED SERVICES DEMAND DATA REQUEST



INSTRUCTIONS FOR THE

2014 ADVANCED SERVICES DEMAND DATA REQUEST

Wednesday 5, February, 2014 – Wednesday 5, March, 2014

Study Contacts

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Technical problems to use or to access the web site:
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* Bookmarks are available in Adobe to jump to the different sections of the document.

Introduction

The 2014 Advanced Services Demand Data Request collects information that is integral to developing NECA's special access rates for the 2014 Annual Filing.

This document provides detailed instructions to help you login to the website, navigate it, and enter data for your study area(s). In this study there are separate sections devoted to itemized special access revenue data and demand data for the NECA Tariff 5 Services.



Please take into account the impact of the following NECA filings on your demand projections for 2014 and 2015.



- NECA introduced a new ADSL Voice-Data speed option of 50 Mbps upstream/100 Mbps downstream in April, 2013;
- Expanded the Ethernet Transport Service (ETS) Port Protection optional feature to cover ETS Basic Ports with Channel Terminations (CTs) located greater than 300 feet from the ETS Serving Wire Center (SWC);
- Modified existing provisions related to the application of the ETS Design Change Charge when upgrading bandwidth capacity on certain existing ETS rate elements. When the customer increases the bandwidth capacity on its existing ETS Basic Ports, ETS Interconnection Ports, ETS CTs, DSL Access Service Connection functions and/or ETS Port Protection features, any outstanding minimum period charges for the lower capacity ETS Ports and ETS CTs being upgraded will be waived. New minimum service periods will be established for the higher capacity ETS Ports and ETS CTs.

Logging into the Website

1. Go to www.neca.org and click on **Log In**. The NECA Login screen will be displayed where you can submit your NECA member User ID and Password. Please use your NECA member User ID and Password.
2. Click on **NECA Data Collections** under **Member Services** on the top menu of the page.
3. Click on **Advanced Services Demand Data Request** on the **NECA Data Collections** page.
4. The **WELCOME** screen of the Advanced Services Demand Data Request will appear. When you click on the **Proceed** button in the bottom right hand corner, you will be requested to enter the contact information. Then, you will be redirected to the **Study Area - Exchange Carrier List**. Please follow the instructions posted on the website for this section as well as the other sections of the study.

Study Area – Exchange Carrier List

The **Study Area - Exchange Carrier List** contains the study areas that are associated with your User ID in NECA's records. (Many users will see one study area code listed.) You will use this page to select the study area(s) for which you are entering data. Besides Study Area Code and Study Area Name columns, you will see additional columns to indicate the data submission status: one column for each of the services.

Initially you will see a status of "No Data Entered (denoted by ) if you indicate on the **NECA Tariff 5 Services** page that you offer a particular service. It changes into "Completed" (denoted by ) after you answer the questions about the service.



The **Blank Forms** are available and downloadable from the web site. With the forms in print, you can preview the data request and fill out the data request on paper before submitting the data to the web site.



The **Archived Data** from the 2013 Advanced Services Demand Data Request are available and downloadable from the **Download Data** link in the top screen menu. *If you participated in this study last year*, please login to the Advanced Services Demand Data Request website. From the menu at the top of the welcome page of the ASDR website, please click on the link “**Download Data**” of the top screen menu and move to the download page. Then, select a study area code (SAC) and click on the link “**Download Last Year Data**” at the bottom of the page. It will download the archived data in MS Excel format. The following screenshot demonstrate the steps:

NECA Advanced Services Demand Data Request

Home | Contact Us | Instructions | Blank Forms | View Study Areas | **Download Data** | Logout

Welcome to NECA's Data Request for Advanced Services Demand

NECA is asking all traffic sensitive pool members to complete this Advanced Services Demand Data Request. NECA uses the demand information to estimate revenue from advanced services for the new Test Period. This information in turn is crucial in arriving at special access rates that achieve the authorized rate of return.

You will be asked to provide special access revenue for each service category for the calendar year 2013.

- Special Access Revenue

You will indicate what NECA Tariff 5 services you offer currently or expect to offer during the 2014-2015 Test Period. For each service in your selection, you will have to report actual or projected year-end demand. The 2014 study covers the following NECA Tariff 5 services:

- DSL
- DSL Connection Points
- Ethernet Transport Service
- IP Gateway
- ATM
- High Capacity (DS1/DS3)
- SONET
- Frame Relay

This year's study also has a section for your Comments.

Please click on the [INSTRUCTIONS](#) link on the menu bar above for detailed instructions. The link will be available on every page for your convenience.

Clicking on the PROCEED button below will take you to the [STUDY AREA - EXCHANGE CARRIER LIST](#), for you to select your company.

You can come back to this page at any time by clicking the [HOME](#) link on the menu bar at the top of your screen.

- ▶ The **Blank Forms** are available and downloadable from the web site. With the forms in print, you can preview the data request and fill out the data request on paper before submitting the data to the web site.
- ▶ The **Archived data** from the 2013 study is also available from the [Download Data](#) link in the top screen menu.

Thank you for your help in completing this data collection request.

For assistance:

Please click on the [Contact Us](#) link, which is displayed on every page, for assistance.

Study Contacts

Data Questions:
Kiwan Lee
NECA Special Access Rate Development & Quantitative Analysis

Technical problems to use or to access the web site
Amar Puranik
NECA Systems Design

Special Access Revenues

You will be requested to provide special access revenue for each service category for the calendar year 2013 based on the Settlement data. It is useful information that will help NECA develop special access rates for the 2014 Annual Filing. The following itemized special access revenues are requested:

- DSL Revenue (2013 Annual Total)*
- ETS Revenue (2013 Annual Total)
- ATM Revenue (2013 Annual Total)
- High Capacity Revenue (2013 Annual Total)
- SONET Revenue (2013 Annual Total)
- Frame Relay Revenue (2013 Annual Total)
- Narrow Band (Legacy Service) Revenue (2013 Annual Total)
- Others (2013 Annual Total)
- Total Special Access Revenue including DSL (2013 Annual Total)*



Note: * NECA has already pre-populated revenue numbers for DSL and total special access services based on the recent Settlement. You could enter most accurate

numbers, if available. Please make sure that total special access revenue at the bottom equals to sum of all itemized revenues.

Demand for Access Elements

NECA Tariff 5 Services

Please use the check boxes on this screen to indicate the NECA Tariff 5 services that you currently offer or expect to offer during the 2014-2015 test period.

For each service in your selection, you will have to report actual or projected year-end demand. The 2014 study covers the following NECA Tariff 5 services:

- DSL
- DSL Connection Points
- Ethernet Transport Service
- IP Gateway
- ATM
- High Capacity (DS1/DS3)
- SONET
- Frame Relay

In addition, there are sections for Comments. You will always have access to these Instructions from a link on the menu bar at the top of each page.

After you click on the **Submit** button, you will be redirected to a page for itemized special access revenue for 2013 first and then a page that has questions about the first service you checked. In addition, each line you checked on the Tariff 5 Services page becomes a link. When you click on a link, you will be redirected to a series of questions about the demand for the service.

There is also a check box for **Comments**. Please check this box. You can use the **Comments** section to clarify information you enter in other sections or make suggestions for future studies.

General Instructions – Services Sections

Each section devoted to a service has a series of questions about customer demand in terms of various rate elements. The questions ask about the demand that was in place as of December 31, 2013, and the demand that is projected for December 31, 2014 and December 31, 2015. For several rate elements, only demand for the first time period is requested.

After you answer the set of questions, you will see a **Prev** button and a **Submit & Next** button at the bottom of the screen. To return to the previous screen without submitting any data, click on the **Prev** button. Please note that if you do this, any data you entered in the section will be lost. To submit your answers to the questions, click on the **Submit & Next** button. Your data for the section will be entered and you will be redirected to the screen for the next service that you chose in the NECA Tariff 5 Services list.

If you offer a service but don't have demand for the service, e.g., Frame Relay, please go to the section and submit zeros. Because all the fields are pre-populated with zeros, you simply have to go to the section and click on **Submit & Next**. You will receive a **Warning Message** that you are submitting zeros. Click on **OK** to proceed.

In several areas of the survey, edit checks have been included that will issue a **Warning Message** if you enter a value that appears very high or too low. The system will highlight the suspect fields in red. At this point you can proceed with the data submission by clicking on **OK** in the Warning Message, or review the suspect fields by clicking on **Cancel**. If you receive such a Warning Message, please verify the data points that triggered the message before you submit them.

In a few areas of the survey, an edit check will issue an **Error Message** if data appear erroneous. The problem data are highlighted in red. If you get an Error Message, you will not be able to submit the data until you correct the error.

After you enter data for a service, the status for the service will change from "Pending" to "Completed" on the **NECA Tariff 5 Services** screen and the **Study Area - Exchange Carrier List** screen. You can always go back to a section to revise data you have entered.

You can also delete data that you have entered for a section. To do this, go to the **NECA Tariff 5 Services** screen, and uncheck the section that contains the data you want to delete. You will see a **Warning Message** that you are about to delete data for the section. To proceed with the deletion, click on **OK**, otherwise click on **Cancel**. You must complete the deletion by clicking on the **Next** button at the bottom of the page. When you do this, all the data fields in the section will be replaced with zeros.

After you have entered data successfully for all of the relevant sections, you will be redirected to the **NECA Tariff 5 Services** screen to review the completion status. You may **Logout** from the study or choose to enter data for another Study Area by clicking

on the **Finish** button on the menu at the bottom of the screen or **View SARs** on the menu at the top of the **NECA Tariff 5 Services** screen.

Finally, the menu at the *top* of screen will appear in each section as shown below. The menu contains a variety of functions that you can click on:



Home: Takes you back to the Welcome screen.

Contact Us: Launches a form you can use to send an email to NECA about any problems you are experiencing with the study.

Instructions: Launches a copy of this document.

Blank Forms: Launches a downloadable copy of the data request.

View SARs: Takes you back to the **Study Area - Exchange Carrier List** screen.

NECA Services: Takes you back to **NECA Tariff 5 Services** screen.

Print: Prints a copy of the screen.

Download Data: Download the previous & current data submissions into Excel sheets .

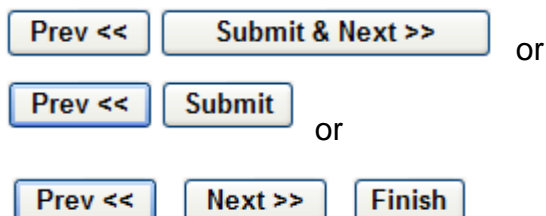
Logout: Logs you out from the study.

Also, a navigation bar under the *top* menu of the screen will appear in each section. An example is shown below. This navigation bar indicates where your current section is located within the website. You can click on a destination on the bar and move to a different section of the website.

[Home](#) > [Study Area List](#) > [Main](#) > [NECA Tariff5 Services](#) > High Capacity (DS1/DS3)



The menu at the *bottom* of screen will appear in each section as shown below:



Prev <<: Takes you back to the previous section.

Next >>: Takes you to the next section.

Submit & Next: Submits the current section data and move to the next section.

Submit: Submits the data and then takes you back to the **NECA Tariff 5 Services** screen.

Finish: Takes you to **Study Area - Exchange Carrier List** after completing all selected services. This button will appear at the bottom of the **NECA Tariff 5 Services** screen only when you complete all services in your selection.

DSL

To simplify data entry, the DSL section only asks for high-level information in the following categories:

- ADSL line counts
- SDSL line counts
- DSL Extended Transport Paths & Billable Mileage

The Appendix at the end of this document has more information on DSL service.

DSL Line Counts

Please enter the number of ADSL lines that were in service under NECA Tariff No. 5 as of Dec. 31, 2013, and the number you project to be in service for Dec. 31, 2014 and Dec. 31, 2015. ADSL speed options are listed: 1Mbps/6Mbps, ADSL 3Mbps/15Mbps, 5Mbps/50Mbps, ADSL 25Mbps/50Mbps, and ADSL 50Mbps/100Mbps. Please provide separate counts for Voice-Data and Data-Only lines, classified according to whether they were on the Non-discounted rates, Monthly Plan (discounted rates), 1-year Term Plan (discounted rates), and 3-Year Term Plan (discounted rates).

Please enter the SDSL line counts that were in service under NECA Tariff No. 5 as of Dec. 31, 2013, and the number you project to be in service for Dec. 31, 2014 and Dec. 31, 2015. For SDSL 256 Kbps and SDSL 768 Kbps, please provide separate counts for Voice-Data and Data-Only lines, classified according to whether they were Non-discounted rates, Monthly Plan (discounted rates), 1-year Term Plan (discounted rates), and 3-Year Term Plan (discounted rates).

For all other SDSL speed options (SDSL 144 kbps, SDSL 2 Mbps, SDSL 4 Mbps), please enter total count for each year in the “All Other SDSL Lines” category.

The website will automatically show total number of DSL lines by summing up your inputs for ADSL and SDSL services in the previous tables. The website will compare it with the DSL line count recently reported to the EC1050 or AS1000. When it finds a reasonably big difference, it will raise a warning for your confirmation.



NECA uses an “Accordion” web page style to the DSL section. Only one table is open for your input. When you click on a table title for a A/SDSL speed option, the web browser will expand the table for your input while collapsing all other tables and showing only the table titles.

Here is an example. Suppose you want to enter demand counts for a speed option **ADSL 512 kbps/6 Mbps**. You will click on the table title **ADSL 512 kbps/6 Mbps**. Then, the web browser will expand the table and show the input cells (see the demo screenshot below):

NECA Advanced Services Demand Data Request

Home | Contact Us | Instructions | Blank Forms | View SARs | NECA Tariff 5 Services | Print | Logout

Home > Study Area List > Special Access Revenue > NECA Tariff 5 Services > DSL

DSL

Study Area Code: 100002 Study Area Name: OXFORD WEST TEL CO

Please enter the number of Digital Subscriber (DSL) Lines in service under NECA's Tariff 5 for the categories and time periods listed below.

DSL Line Counts

	Actual for Dec. 31 2011	Projection for Dec. 31 2012	Projection for Dec. 31 2013
Total DSL Lines	17	29	63
Total ADSL Lines	11	22	55
Total SDSL Lines	6	7	8

ADSL 512 kbps/6 Mbps

ADSL Rate Plan	Actual for Dec. 31 2011		Projection for Dec. 31 2012		Projection for Dec. 31 2013	
	Voice-Data Line Count	Data-only Line Count	Voice-Data Line Count	Data-only Line Count	Voice-Data Line Count	Data-only Line Count
a. Non-discounted rates	0	11	0	0	0	0
b. Monthly Plan (discounted rates)	0	0	0	0	0	0
c. 1-Year Term (discounted rates)	0	0	0	22	0	0
d. 3-Year Term (discounted rates)	0	0	0	0	0	55
Subtotal	0	11	0	22	0	55

ADSL 1 Mbps/6 Mbps

ADSL 3 Mbps/15 Mbps

ADSL 5 Mbps/50 Mbps


ADSL 10 Mbps/50 Mbps

ADSL 25 Mbps/50 Mbps

SDSL 256 kbps

After you complete the table for **ADSL 512 kbps/6 Mbps**, you want to fill out demand counts for the speed **ADSL 5 Mbps/50 Mbps**. Please click on the table title **ADSL 5 Mbps/50 Mbps**. The web browser will expand the table for your input, collapse all other tables, and show only the table titles (please see the demo screen shot below).

This new feature will save you a great deal of time when you want to navigate many tables without scrolling up and down in a window.



Advanced Services Demand Data Request

Amar Purank
Monday, Jan 16, 2012

[Home](#)
[Contact Us](#)
[Instructions](#)
[Blank Forms](#)
[View SARs](#)
[NECA Tariff 5 Services](#)
[Print](#)
[Logout](#)

[Home > Study Area List > Special Access Revenue > NECA Tariff 5 Services > DSL](#)

DSL

Study Area Code: 100002

Study Area Name: OXFORD WEST TEL CO

Please enter the number of Digital Subscriber (DSL) Lines in service under NECA's Tariff 5 for the categories and time periods listed below.

DSL Line Counts

Total DSL Lines under NECA's Tariff 5

	Actual for Dec. 31 2011	Projection for Dec. 31 2012	Projection for Dec. 31 2013
Total DSL Lines	17	29	63
Total ADSL Lines	11	22	55
Total SDSL Lines	6	7	8

ADSL 512 kbps/6 Mbps

ADSL 1 Mbps/6 Mbps

ADSL 3 Mbps/15 Mbps

ADSL 5 Mbps/50 Mbps

ADSL 5 Mbps/50 Mbps

	Actual for Dec. 31 2011		Projection for Dec. 31 2012		Projection for Dec. 31 2013	
ADSL Rate Plan	Voice-Data Line Count	Data-only Line Count	Voice-Data Line Count	Data-only Line Count	Voice-Data Line Count	Data-only Line Count
a. Non-discounted rates	0	0	0	0	0	0
b. Monthly Plan (discounted rates)	0	0	0	0	0	0
c. 1-Year Term (discounted rates)	0	0	0	0	0	0
d. 3-Year Term (discounted rates)	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0

ADSL 10 Mbps/50 Mbps

ADSL 25 Mbps/50 Mbps

SDSL 256 kbps

DSL Extended Transport Virtual Circuit Paths & Billable Mileage

When a telephone company locates its DSL Access Service Connection Point in the operating territory of another company, DSL Extended Transport is used to provide a virtual circuit path between the DSL Transport Hub in its own study area and the DSL Access Service Connection Point.

DSL Extended Transport is available at a speed of 1.544 Mbps when used with special access service, and at speeds of 2, 5, 10, 20, 50, 100, 250, 500, 750, and 1,000 Mbps when used with Ethernet Transport Service.

Please enter total billable mileage for all DSL Extended Transport Virtual Circuit Paths at each capacity as of Dec. 31, 2013 (the first 25 miles of each 1.544 Mbps virtual circuit path are not chargeable)

For example, if the DSL Extended Transport Virtual Circuit Path is 30 miles, you would enter 5, because the first 25 miles are not billable. If there are two DS1 equivalents of 30 miles each, you would enter 10, or 5 miles for each DS1 equivalent.

DSL Access Service Connection Points



DSL Connection Points section is applicable to traffic sensitive pool members regardless of whether they use NECA's DSL tariff rates.

The DSL Access Service Connection Point aggregates data traffic from one or more Serving Wire Centers, where it is then transferred to the network of an ISP, corporate LAN provider, or other telecom service provider. The DSL Access Service Connection Point is an optional feature the provider orders under Special Access, ATM Cell Relay Access Service, Ethernet Transport Service, and/or Frame Relay Access Service.

All of the DSL Access Service Connection Point information is being collected in one section. The Access Service Connection Point option has recurring and nonrecurring charges under High Capacity, SONET, and Metallic Service, whereas it has a nonrecurring charge under ATM and Ethernet Transport Service.

Please indicate the number and type(s) of ports from NECA's Tariff 5 with DSL Access Service Connection Point Option in your network as of Dec. 31, 2013, and the projected number as of Dec. 31, 2014 & Dec. 31, 2015.



The company has the option to have one or more connection points inside their study area or use a connection point of a nearby telephone company using extended transport. In all cases there must be at least one connection point charge for each telephone company. If the neighboring telephone company is not in the NECA pool the connection point charge still applies and extended transport, the connection point and extended transport arrangement are provided under a lease arrangement and the costs are reported to the pool.



Later sections of the survey also ask for port counts. Any ports that you enter in this section that serve as connection points should also be included in port counts in later sections of the survey.

Ethernet Transport Service

An ETS Channel Termination provides the transport facility between the customer designated premises and an ETS Basic Port at the Telephone Company's ETS serving wire center (SWC). NECA's rates vary by capacity and by the distance between the customer designated premises and the ETS SWC.



NECA uses an “Accordion” web page style to the ETS section. Only one table is open for your input. When you click on a table title, the web browser will expand the table for your input while collapsing all other tables and showing only the table titles.

Counts of Ethernet Transport Service Channel Terminations

Please enter total number of ETS Channel Terminations you provide under NECA's Tariff 5 for the periods listed. Please itemize the Channel Terminations by capacity and by whether the customer designated premises is within 300 feet of the ETS SWC.

Shares of ETS CTs by Term Plans

As of Dec. 31, 2013, please break down total monthly Channel Terminations into counts by term plan: counts that are not committed to a term plan, counts committed to a 3 year term discount plan, and counts committed to a 5 year term discount plan.

Counts of Ethernet Transport Service Basic Ports and Port Protections

ETS Basic Ports provide the interface to the Telephone Company's ETS network. The ETS Basic Port counts should include the basic ports supporting ETS Channel Termination, optional DSL Access Service Connection function, and other logical transmission paths.

Please enter total number of Basic Ports as of Dec. 31, 2013 you provide under NECA's Tariff 5. Please itemize the port counts by their capacity.

For the ETS Basic Port Protection counts, please provide the total number of the ETS Basic Ports on which the customer orders the ETS Port Protection feature is known as the Primary ETS Basic Port.

Note: (1) Your count should include Ethernet ports that are part of Ethernet Transport Service.

(2) Please use the ATM section instead of this section to report Ethernet ports that are part of ATM service.

(3) Please include in your port counts any ETS ports that are equipped with the optional DSL Access Service Connection function that you may have entered in the DSL Connection Point section.



The number of total ETS Basic ports includes the sum of ETS basic ports for ETS CTs and for optional DSL Access Service Connection function, at minimum.

We expect that the number of ETS ports by date is greater than or equal to the sum of ETS CTs and ETS DSL Connection Points. You may have to go back to the DSL Connection Points section and the previous ETS CT section to adjust your inputs.

Counts of Ethernet Transport Service Interconnection Ports

ETS Interconnection Ports provide the interface to the Telephone Company's ETS network and are used in conjunction with Special Access service.

They permit the ETS customer to: 1) connect a customer designated premises served by an ETS or non-ETS SWC to the Telephone Company's ETS network, or 2) interconnect the Telephone Company's ETS network to an Ethernet network in the serving territory of a non-adjacent telephone company.

Please enter total number of Interconnection Ports as of Dec. 31, 2013 you provide under NECA's Tariff 5 and the projected number as of Dec. 31, 2014 & Dec. 31, 2015. Please itemize the port counts by their capacity.

Note: (1) If you have demand for ETS Interconnection Ports, please report the associated demand of DS3, OC3, or OC12 Special Access service in the appropriate section of this study.

(2) Please include in your port counts any ETS ports that are equipped with the optional DSL Access Service Connection function that you may have entered in the DSL Connection Point section.

Counts of ETS Ethernet Virtual Connections

An ETS Ethernet Virtual Connection (EVC) is a logical association established across a shared transmission path that allows the customer to transmit packets between any two ETS ports located on the Telephone Company's ETS network. The intraswitch ETS EVC rate applies when the EVC is between two ETS ports in the same serving wire center. The interswitch ETS EVC rate applies when the EVC is between ETS ports that are in different serving wire centers within the Telephone Company's serving territory.

Please enter total number of Intraswitch and Interswitch Ethernet Virtual Connections as of Dec. 31, 2013 you provide under NECA's Tariff 5 and the projected number as of Dec. 31, 2014 & Dec. 31, 2015. Please itemize the EVCs by type (intra/inter-switch) and capacity.

Counts of ETS Extended Ethernet Virtual Connections

An ETS Extended Ethernet Virtual Connection (E-EVC) is a logical association established across a shared transmission path that allows the customer to transmit packets between an ETS port located in the Telephone Company's ETS network and the Ethernet network of another telephone company located in an adjacent serving territory.

Please enter total number of ETS Extended Ethernet Virtual Connections as of Dec. 31, 2013 you provide under NECA's Tariff 5 and the projected number as of Dec. 31, 2014 & Dec. 31, 2015.

Counts of ETS Interconnected Ethernet Virtual Connections up to 50 miles

An ETS Interconnected Ethernet Virtual Connection (ETS I-EVC) is a transport option for jointly provided ETS service between non-adjacent telephone company operating territories, where the airline distance between the ETS Serving Wire Centers (SWCs) serving the customer designated premises (CDPs) is 50 miles or less.

Please enter the total number of ETS I-EVCs provided under NECA's Tariff 5 for the time periods listed, itemized by capacity.

Counts of ETS Interconnected Ethernet Virtual Connections at 51-75 miles

Please enter the total number of ETS I-EVCs provided under NECA's Tariff 5 for the time periods listed, itemized by capacity. Please enter only ETS I-EVC counts of non-adjacent telephone company operating territories, where the airline distance between the ETS Serving Wire Centers (SWCs) serving the customer designated premises (CDPs) is in the range of 51-75 miles.

Counts of ETS Ethernet Class of Service – Near Real Time (NRT)

ETS CoS NRTs are available in 1 Mbps increments on the customer's ETS Intraswitch or Interswitch Ethernet Virtual Connections (ETS EVCs) between two ETS Basic Ports located within the operating territory of the telephone company. Please see the Appendix for more information.

Please enter the total number of megabits ordered by all ETS customers for Ethernet Class of Service (CoS) Near Real Time provided under NECA's Tariff 5 for the time periods listed below. Please itemize the total number of megabits by switch type (intra/inter-switch) and EVC capacity.

For example, an ETS customer with a 250 Mbps ETS Intraswitch EVC between two 250 Mbps ETS Basic Ports orders a total of 100 Mbps of Near Real Time CoS. Then you will enter "100".

Please provide the data for three periods, as of Dec. 31, 2013, Dec. 31, 2014, and Dec. 31, 2015.

Counts of ETS Ethernet Class of Service –Real Time (RT)

ETS CoS RTs are available in 1 Mbps increments on the customer's ETS Intraswitch or Interswitch Ethernet Virtual Connections (ETS EVCs) between two ETS Basic Ports located within the operating territory of the telephone company. Please see the Appendix for more information.

Please enter the total number of megabits ordered by all ETS customers for Ethernet Class of Service (CoS) Real Time provided under NECA's Tariff 5 for the time periods listed below. Please itemize the total number of megabits by switch type (intra/inter-switch) and EVC capacity.

For example, an ETS customer with a 250 Mbps ETS Intraswitch EVC between two 250 Mbps ETS Basic Ports orders a total of 100 Mbps of Real Time CoS. Then you will enter "100".

Please provide the data for three periods, as of Dec. 31, 2013, Dec. 31, 2014, and Dec. 31, 2015.

Counts of ETS Low Bit Rate Ethernet Virtual Circuit Channels

An ETS LBR-VCC option provides a 64 kbps two-way virtual communications path (upstream and downstream). It is designed to meet the needs of providers of home monitoring services such as security and metering applications, including Advanced Metering Infrastructure for smart grid functions. The ETS LBR-VCC provides a 64 kbps virtual circuit path (secure VLAN) between the ETS customer's CDP and the premises of its end user customer, provided the end user customer's premises is equipped with a tariffed A/SDSL Access Service provided by the telephone company. It is available in increments of 64 kbps.

Please enter the total number of 64 kbps increments for all the LBR-VCCs as of Dec. 31, 2013, Dec. 31, 2014, and Dec. 31, 2015.

Counts of ETS Multimedia Virtual Circuit Channels

An ETS Multimedia Virtual Circuit Channel (MM-VCC) is used for high speed multimedia transmission between the customer designated premises and the premises of the end user ADSL customer. It is available in increments of 10 Mbps.

The monthly recurring charge for ETS MM-VCCs is waived when local exchange telephone service, ADSL Access Service, and ETS MM-VCCs are provided from the same serving wire center where the ETS DSL Access Service Connection Function is deployed.

Please enter total number of ETS MM-VCCs as of Dec. 31, 2013 you provide under NECA's Tariff 5 and the projected number as of Dec. 31, 2014 & Dec. 31, 2015. Also please enter the number of 10 Mbps increments in bandwidth for all the MM-VCCs as of Dec. 31, 2013.

Example: *A 20 Mbps ETS MM-VCC would have two 10 Mbps increments. If there are 25 ETS MM-VCCs, and each one is 20 Mbps, then the number of 10 Mbps increments is $25 \times 2 = 50$.*

Please enter the number of ETS MM-VCCs (and their associated bandwidth) for which the monthly recurring charge was waived as of Dec. 31, 2013 and the projected number as of Dec. 31, 2014 & Dec. 31, 2015 for which the monthly recurring charge will be waived.

Note: *Because ETS MM-VCCs are used in conjunction with an ETS port that has been equipped with the optional DSL Access Service Connection Function, the port count you entered in the DSL Connection Point section should include the ETS port that is so equipped.*

IP Gateway Access

IPG will provide customers with the ability to deliver interexchange voice traffic originated on or transported across their IP networks for termination to the telephone company's local exchange service subscribers, and to accept interexchange voice traffic originated on or transported across the telephone company's network, using FGD Switched Access Service and IP packet transport technology. IPG transport options enable transmission at data speeds of 1.544 Mbps or 44.736 Mbps. IPG service is available at designated telephone company serving wire centers where the telephone company has deployed an IP gateway switch and provides FGD Switched Access Service.

For Dec. 31, 2013, please enter actual total number of IPG Ports, IPG Transport Terminations (IPG TT), IPG Transport Mileage Terminations (IPG TMT), and IPG Transport Mileage Facility mileages (IPG TMF). For Dec. 31, 2014 & Dec. 31, 2015, only the projected number of IPG Transport Terminations is needed.

ATM

The ATM section asks about demand for ATM ports at different capacities, virtual paths and virtual circuit channels, and the bandwidth associated with the paths and VCCs.

The Appendix at the end of this document has more information on ATM service.

ATM Port Counts

Please enter the number of ATM ports you provided under NECA's Tariff 5 as of Dec. 31, 2013, and the projected number as of Dec. 31, 2014 & Dec. 31, 2015.

Note: (1) Your count should also include any Ethernet ports that are part of ATM service.

(2) Please use the Ethernet Transport Service section instead of this section to report Ethernet ports that are part of Ethernet Transport Service.

(3) Please include in your counts any ATM ports equipped with the optional DSL Access Service Connection function that you may have entered in the DSL Connection Point section.

Virtual Path and Virtual Circuit Channel Counts

Each ATM port must be associated with at least one ATM Virtual Path or DSL Access Service Connection optional function.

An ATM Virtual Path is a pre-defined, logical circuit that is required to route ATM cells between any two ATM ports within the Telephone Company's ATM network. It is provided with a particular bandwidth capacity and traffic routing prioritization parameter. It is available in increments of 1 Mbps, and the bandwidth capacity may not exceed the maximum bandwidth of the associated ATM ports. The monthly recurring charge consists of a path charge and a bandwidth capacity charge. The capacity charge varies depending on whether the path is in the range of 1 to 50 Mbps, 51 to 150 Mbps, or greater than 150 Mbps.

Please enter the number of Virtual Paths under each traffic routing prioritization parameter, as well as total bandwidth for all paths in the particular capacity charge category, as of Dec. 31, 2013. For Dec. 31, 2014 & Dec. 31, 2015, please enter the projected number of Virtual Paths without the associated bandwidth.

Example: *Three virtual paths in VBR-nrt had been provided to connect a customer's premises in 2013. Bandwidths for virtual paths were 20 Mbps, 50 Mbps, and 100 Mbps capacity. Then, total bandwidth in the range 1-50 Mbps is 70 Mbps (=20+50) and total bandwidth for the range 51-150 Mbps is 100 Mbps. The following inputs for VBR-nrt are expected.*

Virtual Paths / Virtual Circuit Channels	Actual Number of Virtual Paths, MM-VCCs & DSL VCCs as of Dec. 31, 2013	Bandwidth in Mbps as of Dec. 31, 2013		
		1 – 50 Mbps	51 – 150 Mbps	150 + Mbps
VBR – nrt	3	70	100	0

A Virtual Circuit Channel (VCC) is a predefined logical circuit used to route ATM cells between any two customer designated premises served by the Telephone Company's ATM-CRS network, and may be established by the customer or the Telephone company. ATM Multimedia VCCs are available in increments of 1 Mbps or 4 Mbps. A DSL VCC is used between the customer designated premises and the premises of the end user ADSL/SDSL customer, uses the VBR-nrt traffic routing prioritization parameter, and has a maximum capacity of 1 Mbps.

Please enter the number of ATM MM-VCCs, and DSL VCC as of Dec. 31, 2013 and the projected number for Dec. 31, 2014 & Dec. 31, 2015.

High Capacity (DS1/DS3)

The High Capacity section asks about demand for Channel Terminations (CT), Channel Mileage Terminations (CMT), and Channel Mileage Facility (CMF) mileage for interstate DS1 and DS3 circuits you provide under NECA Tariff No. 5. The elements may be undiscounted or discounted under either a three-year or five-year term plan.

Note: *Please include in your counts any DS1 or DS3 services equipped with the optional DSL Access Service Connection function that you may have entered in the DSL Connection Point section.*

For Dec. 31, 2013, please enter actual CT, CMT, and CMF mileage. For Dec. 31, 2014 & Dec. 31, 2015, only the projected number of Channel Terminations is needed.

SONET

The SONET section is similar to the High Capacity section. It asks about demand for Channel Terminations, Channel Mileage Terminations, and Channel Mileage Facility mileage for interstate OC3 and OC12 circuits you provide under NECA Tariff No. 5. The elements may be undiscounted or discounted under either a three-year or five-year term plan.

Note: Please include in your counts any OC3 service equipped with the optional DSL Access Service Connection function that you may have entered in the DSL Connection Point section.

For Dec. 31, 2013, please enter actual CT, CMT, and CMF mileage. For Dec. 31, 2014 & Dec. 31, 2015, only the projected number of Channel Terminations is needed.

Frame Relay

Unlike the other sections of the survey devoted to services, the Frame Relay section asks for monthly revenue rather than demand quantities. Please enter your monthly Frame Relay revenue under NECA Tariff No. 5 as of Dec. 31, 2013, and projected monthly Frame Relay revenue as of Dec. 31, 2014 & Dec. 31, 2015 at the current Frame Relay rates

Comments

Please use this section to clarify information you enter in other sections or to make suggestions for future studies. Please be as specific as possible. Please provide your name, phone number, and e-mail ID in case we have to contact you.

APPENDIX

Digital Subscriber Line

A Brief Description of DSL Services and Rates

(For more information see Section 11 of the NECA Access Charge Handbook)

Digital Subscriber Line (DSL): Access Services that provide transmission services over local exchange service facilities that can be used for simultaneous voice and data communications. Service is provided, where available, between customer designated premises and designated Telephone Company Serving Wire Centers. The services may be either Asymmetric Digital Subscriber Line (ADSL), where the downstream speed is faster than the upstream speed, or Symmetric Digital Subscriber Line (SDSL), where the downstream and upstream speeds are the same.

ADSL and SDSL Access Service are available in two service options, i.e., Voice-Data option and Data-Only option. The Voice-Data option supports transmission of high-speed data while simultaneously making or receiving voice calls using the associated local exchange service line provided under the Telephone Company's general and/or local exchange service tariff. The Data-Only option supports high speed data transmissions using dedicated local exchange facilities. Since the Data-Only option does not provide the ability to transmit voice calls, there is no requirement for the purchase of local exchange service.

DSL Access Service Connection Point: The data traffic is routed to an interconnection point designated by the Telephone Company, i.e., the DSL Access Service Connection Point for transfer to a single Telephone Service Provider (TSP). In order for the DSL Access Service customer to reach its TSP, the DSL Access Service must then be interconnected at the Connection Point with Special Access, Frame Relay access, Asynchronous Transfer Mode (ATM) access services, or Ethernet Transport Service (ETS) ordered by the TSP. The DSL Access Service Connection Point serves as a point of aggregation for traffic from one or more Serving Wire Centers (SWCs) to and from a TSP's network.

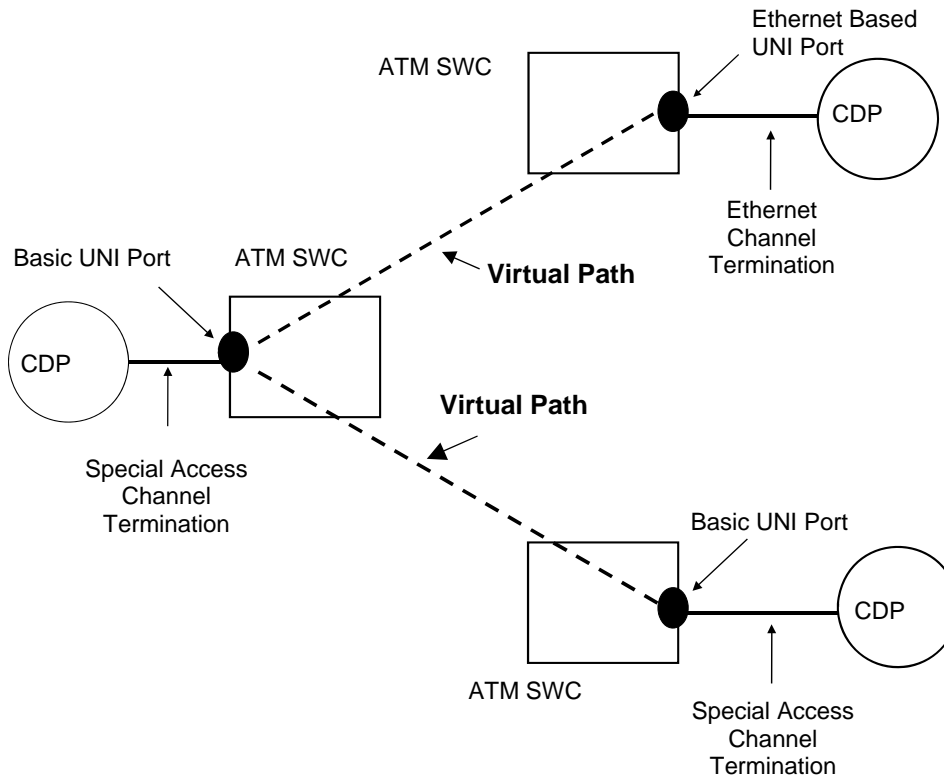
DSL Discount and Term Plans: Effective April 1, 2008, NECA grandfathered the availability of the DSL Wholesale Rate Plan (DSL WRP) and optional Volume Pricing Commitment Plan (VPCP) and replaced them with the DSL Wholesale Pricing Plan (DSL WPP) and optional Volume Pricing Plan (VPP). The DSL WPP provides for reduced rates for DSL services under a Monthly Plan and a Term Plan. The Monthly Plan does not require any volume or term commitments. The Term Plan has two options (A and B) and requires the customer commit to a one year or three-year term. The pricing options consist of reduced monthly rates per line and monthly charges assessed per study area irrespective of the number of DSL SWCs or ordered lines. Relative to Option A, Option B has a higher charge per study area but lower monthly rates per line.

ATM

A Brief Description of VP, VCC, and Quality of Service

(For more information see Section 8 of the NECA Access Charge Handbook)

The customer's CDPs are all served by Telephone Company equipped ATM-CRS SWCs.



Asynchronous Transfer Mode Cell Relay Access Service (ATM-CRS): ATM-CRS is an interstate high-speed transport service that is designed to allow the customer to transmit different types of traffic, (i.e., voice, data, and video) over the same network infrastructure quickly and efficiently. Customers ordering ATM-CRS connect to the ATM-CRS network using High Capacity Special Access Services, or Synchronous Optical Channel Services ATM-CRS Ports.

Virtual Path (VP): Performs the function of establishing the connection between two ATM-CRS Ports. An ATM-CRS Virtual Path is a predefined logical circuit established by the Telephone Company for transmitting cells between any two Ports located within the Telephone Company's ATM-CRS network. VPs can be established between two UNI Ports, between a UNI Port and an NNI Port or between two NNI Ports.

Virtual Circuit Channel (VCC): Performs the function of establishing a path between two CDPs. An ATM-CRS Virtual Circuit Channel is a predefined logical circuit used to route ATM cells between any two CDPs served by the Telephone Company's ATM-CRS network. The VCC is contained within the VP and multiple VCCs can be established within the VP.

Constant Bit Rate (CBR): CBR is designed for applications that require special network timing and minimal delay to ensure a steady flow of user information through the ATM-CRS network. Examples of applications that may require CBR include voice, some types of video, and circuit emulation for higher speed special access services. CBR is the highest priority traffic level on the ATM-CRS network.

Variable Bit Rate – real time (VBR-rt): VBR-rt is designed for applications where the flow of information is bursty and requires low delay variance in ATM cell transmission. Examples of applications that may require VBR-rt include voice and video.

Variable Bit Rate – non real time (VBR-nrt): VBR-nrt is designed for applications where the information flow is bursty and variable delays in ATM cell transmission can be tolerated. Examples of applications that may use VBR-nrt include file transfer, multimedia, and computer aided design/computer aided manufacturing (CAD/CAM).

Unspecified Bit Rate (UBR): UBR is designed for applications where the flow of information is bursty and delay is tolerable using “best effort” engineering. The Telephone Company will attempt to deliver all ATM cells received on a UBR VP; however, network congestion may result in a loss of ATM cells. Examples of applications that might use UBR include interactive data sessions, file transfers, monitoring, and signaling. UBR is the lowest priority traffic level on the ATM-CRS network.

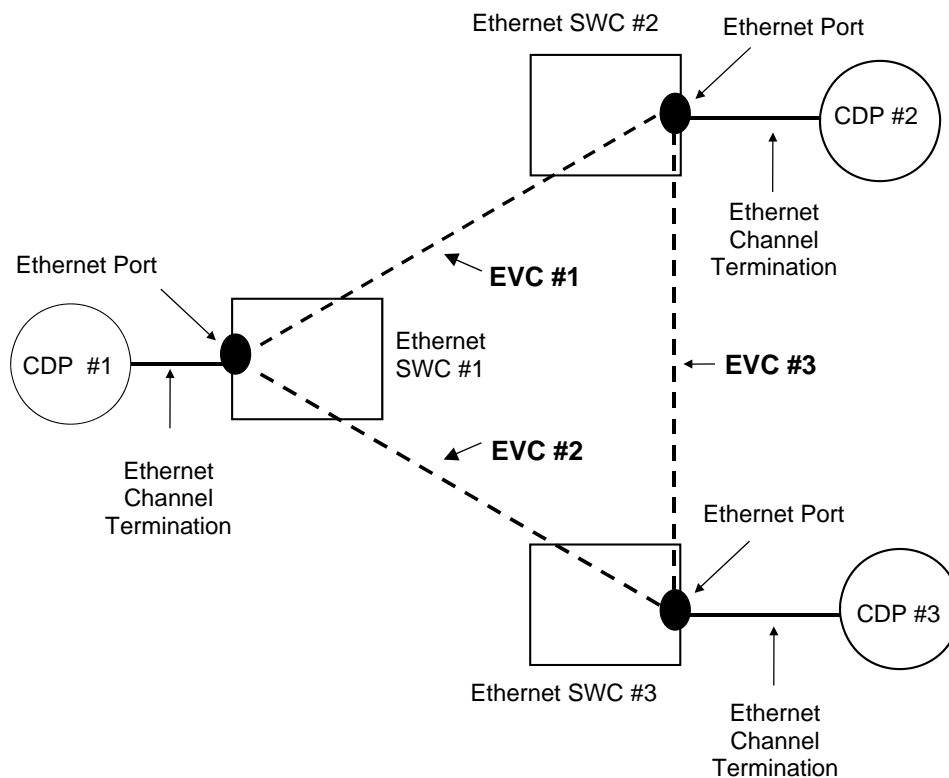
Multimedia VCC (MM-VCC): Multimedia VCC (MM-VCC) provides the ability to send high speed multimedia transmissions to each end user customer, provided the end user premises is equipped with ADSL Access Service. The MM-VCC option is not available for use with SDSL Access Service. Each MM-VCC is available in increments of either 1 Mbps or 4 Mbps.

Ethernet Transport Service

A Brief Description of Ethernet Transport Service Rate Elements

(For more information see Section 8 of the NECA Access Charge Handbook)

Ethernet Transport Service is a new Tariff F.C.C. No. 5 Public Packet Data Network Service offering. Where available, ETS is provided at speeds ranging from 5 Mbps to 1 Gbps. ETS is available only at locations that are identified as Ethernet-equipped serving wire centers (SWCs) in NECA Tariff F.C.C. No. 4. The basic rate structure includes the following rate elements.



ETS Channel Terminations: ETS Channel Terminations (CTs) provide the transport facility between a CDP and an ETS Port at the telephone company's Ethernet-equipped SWC. ETS CTs are available at bandwidth speeds of 2 Mbps, 5 Mbps, 10 Mbps, 20 Mbps, 50 Mbps, 100 Mbps, 250 Mbps, 500 Mbps, 750 Mbps, and 1 Gbps. The customer decides the type of ETS CT(s) needed based on CPE and bandwidth requirements. Bandwidth speeds of 50 Mbps and above require use of a fiber loop facility. ETS CTs are offered at two rates, one for an ETS CT serving a CDP located up to 300 feet from the ETS SWC, and a higher rate for an ETS CT serving a CDP located more than 300 feet from the ETS equipped SWC. Each ETS CT is terminated in a

dedicated ETS Basic Port that must be of bandwidth equal to or greater than the ETS CT. ETS Basic Ports cannot be shared by multiple ETS CTs.

ETS Ports: ETS Ports provide the interface at the telephone company ETS SWC for data traffic to and from the CDP, as well as for connecting the telephone company's ETS network with the Ethernet network of another telephone company. ETS Ports receive Ethernet packets from the customer's CPE, validate addressing parameters contained in the packet headers and transmit the packets into the Ethernet network. ETS Ports can also forward the verified packets to the pre-designated CDP. ETS Ports provide a network termination for data traffic from the customer premises equipment and the network-to-network interface at the telephone company's Ethernet equipped SWC. ETS Ports are offered as ETS Basic Ports or ETS Interconnection Ports.

ETS Basic Ports: ETS Basic Ports provide an interface to the telephone company's Ethernet network and do not include the required transport facility between the CDP and the telephone company's Ethernet-equipped SWC. ETS Basic Ports are available with bandwidth speeds of 2 Mbps, 5 Mbps, 10 Mbps, 20 Mbps, 50 Mbps, 100 Mbps, 250 Mbps, 500 Mbps, 750 Mbps, and 1 Gbps. Each ETS Basic Port must be associated with a minimum of one ETS Ethernet Virtual Connection, one ETS Extended Ethernet Virtual Connection, or one optional DSL Access Service Connection Point (ASCP) function. ETS Basic Ports can be shared by multiple ETS Ethernet Virtual Connections or ETS Extended Ethernet Virtual Connections. The bandwidth speed of an ETS Basic Port must be equal to or greater than the bandwidth speed of its associated ETS CT. The bandwidth speed of an optional DSL ASCP function must be equal to the bandwidth speed of the associated ETS Basic Port.

ETS Port Protection Feature: Where suitable facilities exist, an ETS customer interested in automatic restoration of service should a failure occur may order the ETS Port Protection feature. Customers who want redundancy at critical traffic aggregation points in the Telephone Company's network may have a particular interest in this feature, which provides stand-by capability with dedicated capacity to restore service should a failure occur in an ETS Basic Port and/or associated ETS CT. The ETS Port Protection feature helps minimize the duration of time ETS service is unavailable. It does not prevent an outage from occurring, nor does it guarantee transmission of an ETS customer's traffic (i.e., ETS is offered to customers at a best effort level only). The ETS Basic Port on which the customer orders the ETS Port Protection feature is known as the Primary ETS Basic Port. The Telephone Company will program its ETS switch to automatically redirect the ETS customer's traffic to the stand-by ETS Basic Port and associated stand-by ETS CT, as well as to any EVC(s) (i.e., Intraswitch, Interswitch, Extended and/or Interconnected), assigned CoS levels, and if applicable, the DSL Access Service Connection function, ETS MM-VCCs and ETS LBR-VCCs associated with the Primary ETS Basic Port, should a failure occur in the Primary ETS Basic Port and/or associated ETS CT.

ETS Interconnection Ports: Used in conjunction with Special Access DS3, OC3 and OC12 services, ETS Interconnection Ports allow for connection of a customer designated premises served by an ETS or non-ETS SWC to the telephone company's

ETS network. ETS Interconnection Ports provide the interface to the telephone company's ETS network and do not include the required transport facility between the CDP and the telephone company's ETS SWC. The ETS Interconnection Port may also be used to provide for the interconnection of the telephone company's ETS network to an Ethernet network located in the operating territory of a non-adjacent telephone company. ETS Interconnection Ports are available at bandwidth speeds of 44.736 Mbps, 155.52 Mbps and 622.08 Mbps for customers that want to send Ethernet packets using Special Access High Capacity DS3 and/or Special Access Synchronous Optical Channel Service (SOCS) OC3 or OC12 Channel Termination or Channel Mileage facilities. The ETS Interconnection Port must be associated with a Special Access transport facility, which is provided separate from the ETS Interconnection Port. Each ETS Interconnection Port must also be associated with a minimum of one ETS Ethernet Virtual Connection, one ETS Extended Ethernet Virtual Connection, or one optional DSL ASCP function. ETS Interconnection Ports can be shared by multiple ETS Ethernet Virtual Connections or ETS Extended Ethernet Virtual Connections. The bandwidth speed of an ETS Interconnection Port must be equal to the bandwidth speed of the associated Special Access Channel Termination. The bandwidth speed of an optional DSL ASCP function must be equal to the bandwidth speed of the associated ETS Interconnection Port.

ETS Ethernet Virtual Connections (EVC): ETS EVCs are logical associations established across a shared transmission path that allows the ETS customer to transmit packets between any two ETS Ports located on the telephone company's Ethernet network. ETS EVCs are available in fixed bandwidth amounts of 2 Mbps, 5 Mbps, 10 Mbps, 20 Mbps, 50 Mbps, 100 Mbps, 250 Mbps, 500 Mbps, 750 Mbps, and 1 Gbps. An ETS Intraswitch EVC rate applies for each ETS EVC established between two ETS Ports within the same SWC. An ETS Interswitch EVC rate applies to each ETS EVC established between ETS Ports located in different SWCs.

ETS Extended Ethernet Virtual Connections (E-EVCs): ETS E-EVCs are logical associations established across a shared transmission path that allow the ETS customer to transmit packets to and receive packets from an ETS Port located in the telephone company's ETS network to another telephone company's Ethernet network located in an adjacent serving territory. ETS E-EVCs can be established between two ETS Basic Ports, two ETS Interconnection Ports, or between an ETS Basic Port and an ETS Interconnection Port. ETS E-EVCs are available in fixed bandwidth amounts of 2 Mbps, 5 Mbps, 10 Mbps, 20 Mbps, 50 Mbps, 100 Mbps, 250 Mbps, 500 Mbps, 750 Mbps, and 1 Gbps.

ETS Interconnected Ethernet Virtual Connection (ETS I-EVC): An ETS I-EVC is a logical association established across a shared Ethernet transmission path allowing the ETS customer to transmit packets to and from an ETS Port in a telephone company's ETS network to another telephone company's Ethernet network located in a non-adjacent operating territory. ETS I-EVC transport option is jointly provided ETS service between non-adjacent telephone company operating territories, where the airline distance between the ETS Serving Wire Centers (SWCs) serving the customer designated premises (CDPs) is 75 miles or less.

ETS - DSL Extended Transport: DSL Extended Transport is available at bandwidth speeds of 2 Mbps, 5 Mbps, 10 Mbps, 20 Mbps, 50 Mbps, 100 Mbps, 250 Mbps, 500 Mbps, 750 Mbps, and 1 Gbps. DSL Extended Transport applies when the DSL Access Service Connection Point (ASCP) is located outside of the telephone company's operating territory in the operating territory of an adjacent telephone company, and the customer uses ETS or an equivalent Ethernet access service to connect its CDP to that DSL ASCP. The customer orders DSL Access Service and DSL Extended Transport from the telephone company in which the DSL Transport Hub is located, and applicable ETS and/or Special Access Services from the adjacent telephone company when it is a NECA tariff participant. When the telephone company in the adjacent operating territory is not a NECA Tariff F.C.C. No. 5 participant, then the tariff of that company applies for the comparable or equivalent Ethernet access it provides to connect the customer's CDP to the DSL ASCP.

Optional Features and Functions – ETS DSL Access Service Connection Point

Function: The optional DSL Access Service Connection Point (ASCP) function allows an ETS customer (such as an Internet Service Provider) to connect to the telephone company's Ethernet network to transmit and receive ADSL, SDSL and/or non-tariffed, common carrier wireline broadband Internet (WBI) transmission traffic from its end user customers. Where available, the ETS customer may order either an ETS Basic Port or an ETS Interconnection Port equipped with DSL ASCP function. The speed of the DSL ASCP function must be the same speed as the associated ETS Port. The DSL ASCP may be located within the operating territory of the telephone company, or in the operating territory of an adjacent telephone company when used in conjunction with ETS. A nonrecurring charge will apply to equip an ETS Port with the DSL ASCP function.

Optional Features and Functions –ETS MM-VCC: To send high speed multimedia transmissions an ETS customer may order an optional ETS Multi Media Virtual Circuit Channel (ETS MM-VCC) between its CDP and the premises of its end user customer, provided such end user customer's premises is equipped with ADSL Access Service from NECA Tariff F.C.C. No. 5. The ETS MMVCC is available in 10 Mbps increments, with no limitation on the number of increments that may be ordered in a single ETS MM-VCC. ETS MM-VCCs do not increase the bandwidth capacity of other ETS and/or Special Access Service components used by the ETS customer to connect its CDP to the DSL ASCP SWC. ETS MM-VCCs are only available when the ETS customer's CDP, the ETS customer's end user premises and the telephone company's DSL ASCP SWC are all located within the operating territory of the telephone company. The ETS MM-VCC option is not available for SDSL Access Service. A monthly and nonrecurring charge applies for each ETS MM-VCC ordered by the ETS customer. The ETS customer may order multiple ETS EM-VCCs to multiple end user locations on a single order. The ETS MM-VCC monthly charge is waived when the ETS customer's end user's local exchange service, ADSL Access Service and ETS MM VCC are provided from the same SWC where the telephone company has located its DSL Access Service Connection Point. The nonrecurring charge applies per ETS MM-VCC established.

Optional Features and Functions –ETS Low Bit Rate-VCC: An ETS LBR-VCC option provides a 64 kbps two-way virtual communications path (upstream and downstream). It is designed to meet the needs of providers of home monitoring services such as security and metering applications, including Advanced Metering Infrastructure for smart grid functions. The ETS LBR-VCC provides a 64 kbps virtual circuit path (secure VLAN) between the ETS customer's CDP and the premises of its end user customer, provided the end user customer's premises is equipped with a tariffed A/SDSL Access Service provided by the telephone company. Where suitable facilities exist, ETS LBR-VCCs are only available when the ETS customer's CDP, the ETS customer's end user premises and the telephone company's DSL Access Service Connection Point serving wire center (CP SWC) are all located within the serving territory of the telephone company. ETS LBR VCCs do not change the speed available to or from the A/SDSL Access Service end user customer, nor do they increase the bandwidth capacity of the ETS or Special Access elements used by the ETS customer to connect its CDP to the DSL Access Service CP SWC. Transmission speeds are not guaranteed across ETS LBR-VCCs. A monthly and nonrecurring charge applies for each ETS LBR-VCC ordered by the ETS customer. An ETS customer may order multiple 64 kbps increments to an end user customer's premises. The monthly charge for the ETS LBR-VCC is based on the total number of 64 kbps increments specified for that end user customer. The nonrecurring charge applies per ETS LBR-VCC established regardless of the number of 64 kbps increments ordered per end user premises. The ETS LBR-VCC is an eligible element for inclusion in an existing ETS Term Discount Plan, including the Fixed Rate Option where offered, when associated with a committed ETS Port. Local Transport/Special Access Rate Banding does not apply to the ETS LBR-VCC.

ETS Design Change Charge: A nonrecurring ETS Design Change Charge will apply when the customer elects to change the bandwidth capacity on or remove an existing ETS EVC, ETS E-EVC or ETS MM-VCC. The Access Order Charge will not apply when the ETS Design Change Charge applies.

ETS Quality of Service: ETS is provided with a basic Quality of Service (QoS), designed for applications where the flow of information is bursty and delay is tolerable using "best effort" engineering. The telephone company will attempt to deliver all Ethernet packets received on an ETS EVC or ETS E-EVC; however, network congestion could result in some loss of Ethernet packets.

ETS Class of Service (CoS): ETS CoS is an optional feature, which provides the ETS customer with the ability to order from the telephone company two different traffic routing prioritization levels for ETS network capacity. The two proposed CoS levels for ETS are Near Real Time and Real Time, and correspond to the specific user priority value fields described in technical specification IEEE 802.1D-2004, Sections 7, 9, 17 and Annex G. When the customer does not order one of the available CoS levels, its ETS traffic will be transmitted through the telephone company's network as best effort. CoS levels are available in 1 Mbps increments on the customer's ETS Intraswitch or Interswitch Ethernet Virtual Connections (ETS EVCs) between two ETS Basic Ports located within the operating territory of the telephone company. ETS CoS levels are not

available for use on any other ETS rate elements. The available CoS levels are Near Real Time (NRT) and Real Time (RT).

ETS CoS Near Real Time (NRT): Supports applications for which the data flow requires low delay variance and can tolerate some latency in ETS frame transmissions. Examples of applications requiring a Near Real Time CoS level may include priority business applications, multimedia transmissions and streaming video services.

ETS CoS Real Time (RT): Supports applications that require minimal delay and low latency to facilitate a steady data flow of user information. Examples of applications requiring a Real Time CoS level may include voice, high quality video, and circuit emulation for higher speed special access services.

Volume Discount Plan for ETS Committed Ports: A new optional ETS Volume Discount Plan (VDP). The VDP discount will apply to the discounted monthly charges for the total number of committed ETS Ports included in the customer's ETS Term Discount Plan in service on the bill date as described below. When applicable, the VDP discount will be applied after the ETS Term Discount Plan discount is applied. The customer must notify the telephone company in writing indicating it wants to participate in the VDP. In order to receive the VDP discount each month, the customer must have a total of five or more committed ETS Basic and Interconnection Ports in service within the telephone company's operating territory. In any month where the total number of committed ETS Ports in service falls below five, the VDP discount will not apply. The VDP discount will not apply to ETS Ports ordered on a month-to-month basis (i.e., non-committed ETS Ports), to the monthly charges for other ETS rate elements, to any ETS related nonrecurring charges, or to any special access services connected to an ETS Interconnection Port.

IP Gateway Access

IPG will provide customers with the ability to deliver interexchange voice traffic originated on or transported across their IP networks for termination to the telephone company's local exchange service subscribers, and to accept interexchange voice traffic originated on or transported across the telephone company's network, using FGD Switched Access Service and IP packet transport technology. IPG transport options enable transmission at data speeds of 1.544 Mbps or 44.736 Mbps. IPG service is available at designated telephone company serving wire centers where the telephone company has deployed an IP gateway switch and provides FGD Switched Access Service.

IPG Transport Termination (IPG TT): A monthly recurring charge and a nonrecurring charge apply for each termination at the customer designated premises at which IPG Transport is provided. The IPG TT rate recovers the costs to connect the IPG customer's premises to the telephone company's SWC. This

charge will apply even when the customer designated premises and the IPG SWC are located in the same telephone company building.

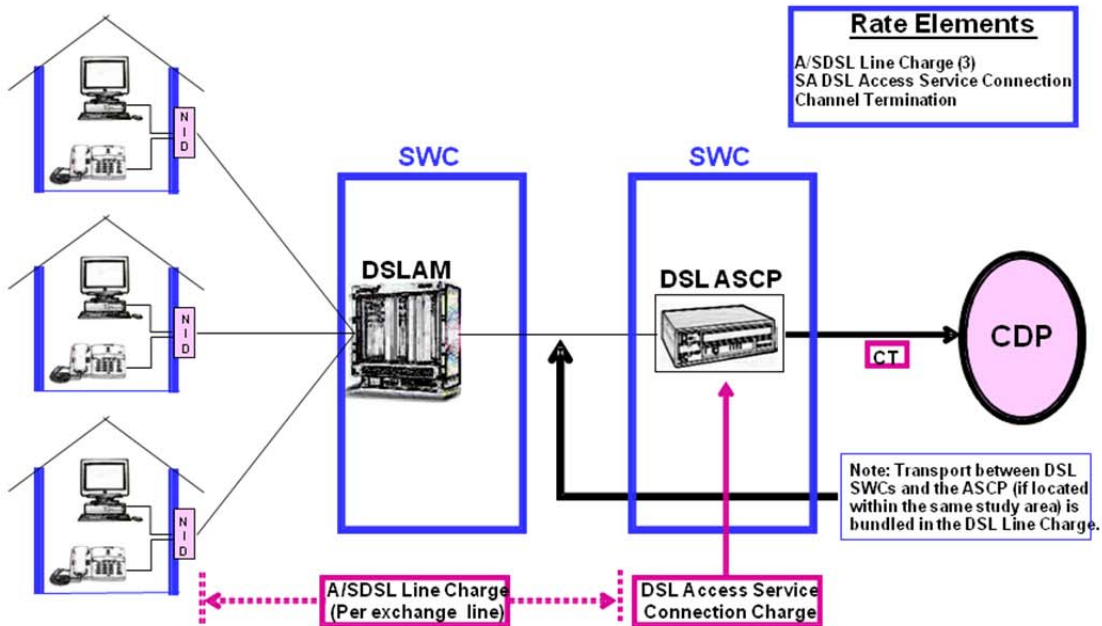
IPG Transport Mileage Facility (IPG TMF): IPG Transport Mileage Facility will be required when the SWC serving the customer designated premises is not equipped with an IPG gateway switch. A monthly recurring charge per airline mile applies to each IPG TMF ordered by the customer. The number of airline miles between the telephone company's SWC serving the customer designated premises and the telephone company's IPG SWC will be calculated using the vertical and horizontal coordinates method specified in the tariff. The IPG TMF rate recovers per-mile costs for the transmission path extending between the telephone company's SWC serving the customer designated premises and the telephone company's IPG SWC.

IPG Transport Mileage Termination (IPG TMT): When IPG Transport Mileage Facility is required as described above, a monthly recurring charge will apply per termination for each IPG TMF ordered by the customer at the telephone company's SWC serving the customer designated premises. The IPG TMT rate recovers the costs for end office equipment associated with terminating the IPG TMF at the SWC serving the customer designated premises (i.e., basic central office circuit equipment).

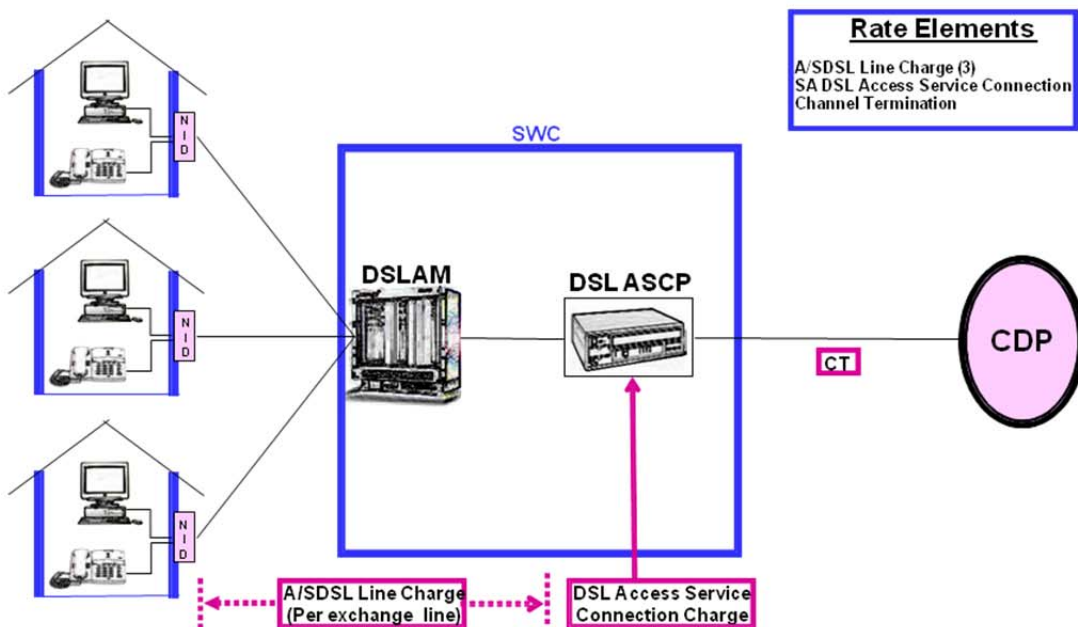
IPG Ports: A monthly recurring charge applies to each IPG Port ordered by the customer. IPG Port charges recover the costs to provide the network interface at the telephone company IPG SWC that allows the IPG customer to terminate interexchange voice traffic to the telephone company's local exchange service subscribers. IPG Ports are available at data speeds of 1.544 Mbps and 44.736 Mbps and are arranged for terminating traffic only.

Network Configuration Diagrams*

Special Access



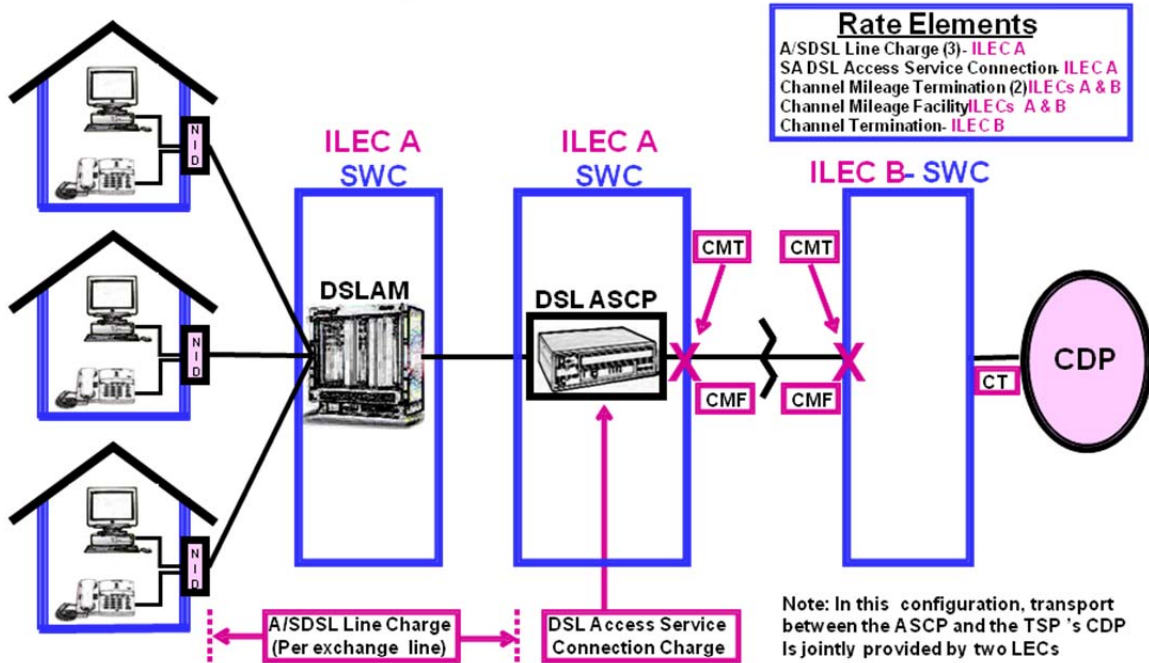
Special Access



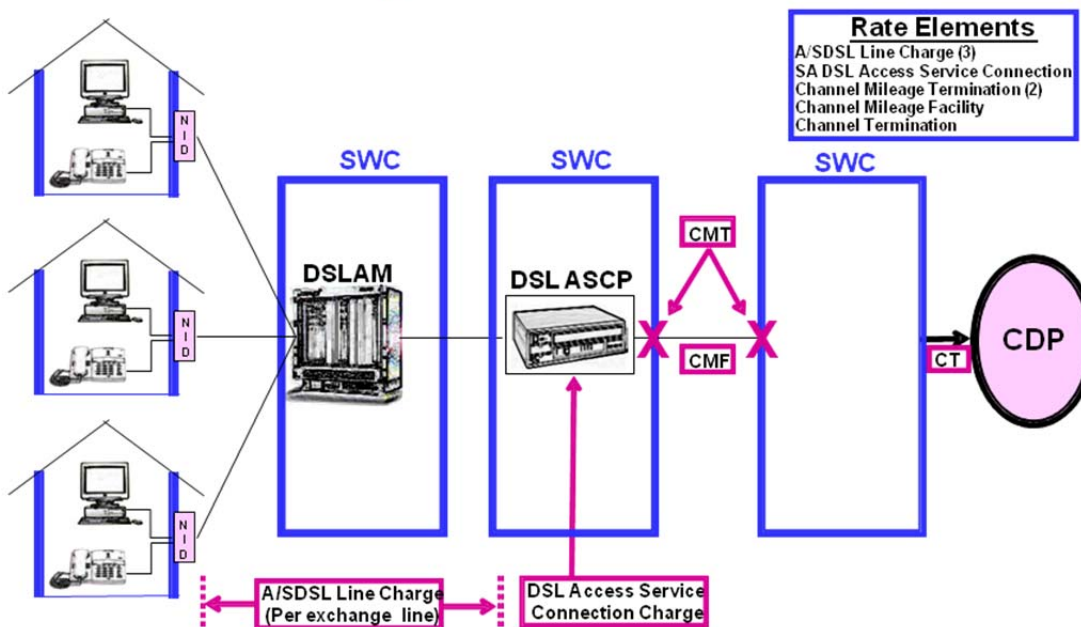
* From the DSL Tariff Compliance Guide.

Network Configuration Diagrams (continued)

Special Access

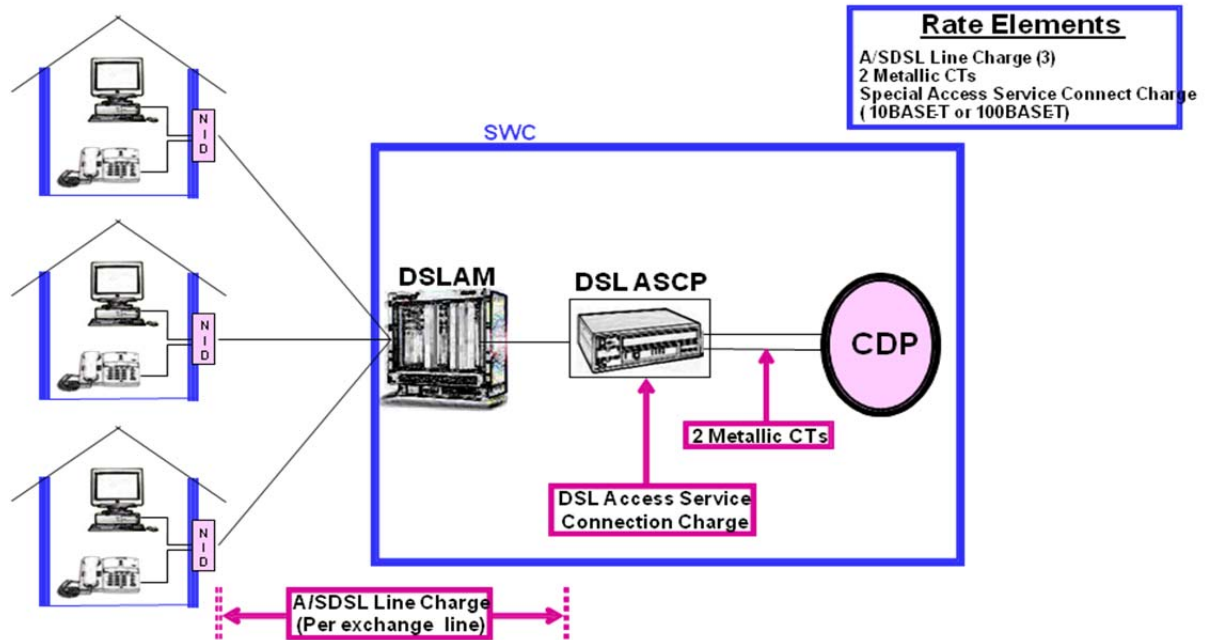


Special Access

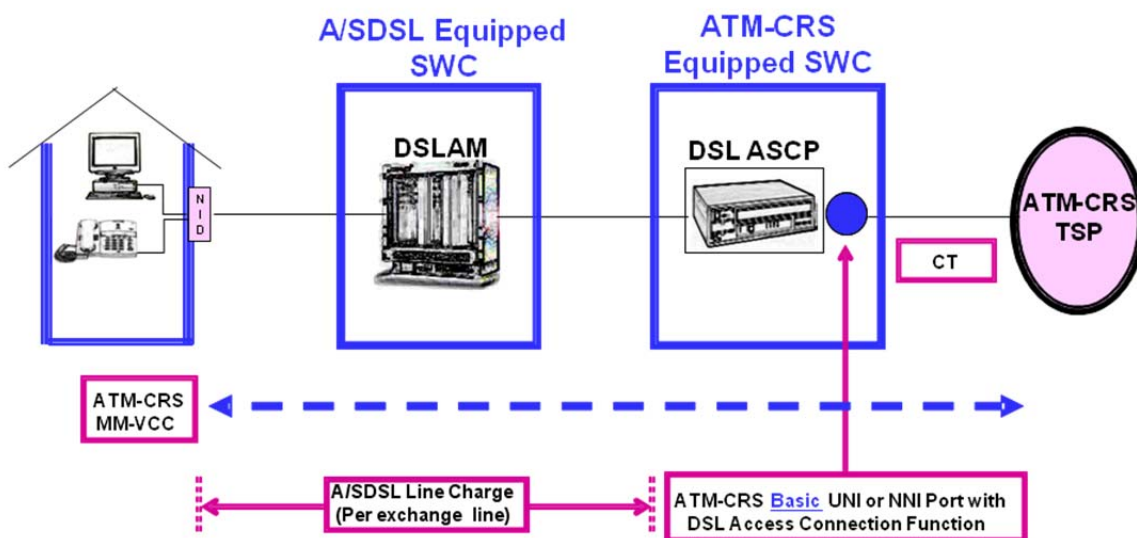


Network Configuration Diagrams (continued)

Ethernet (Copper)

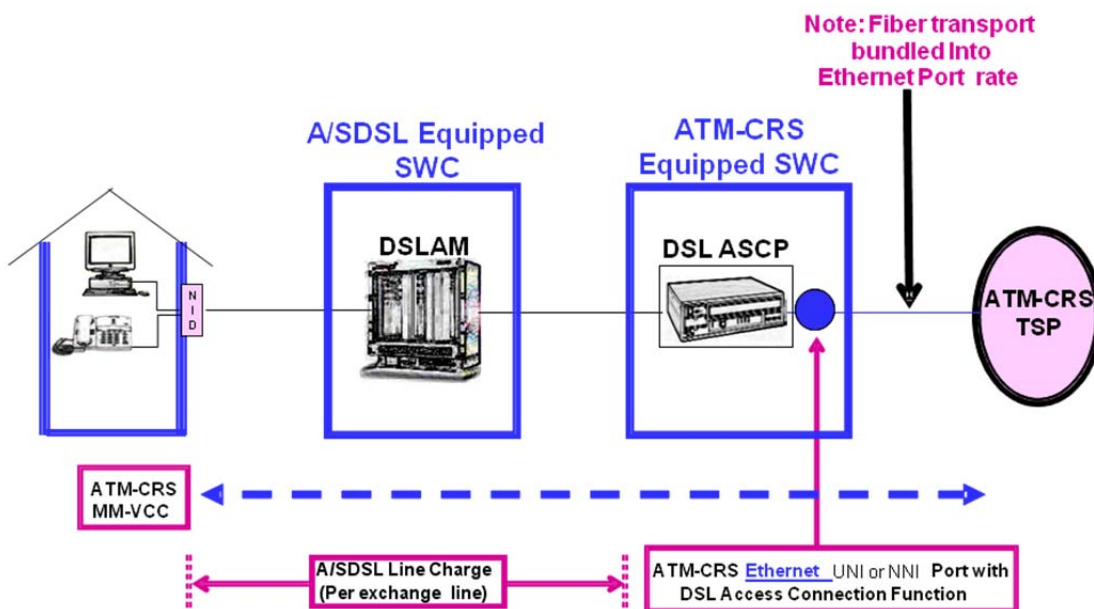


ATM-CRS Basic Port

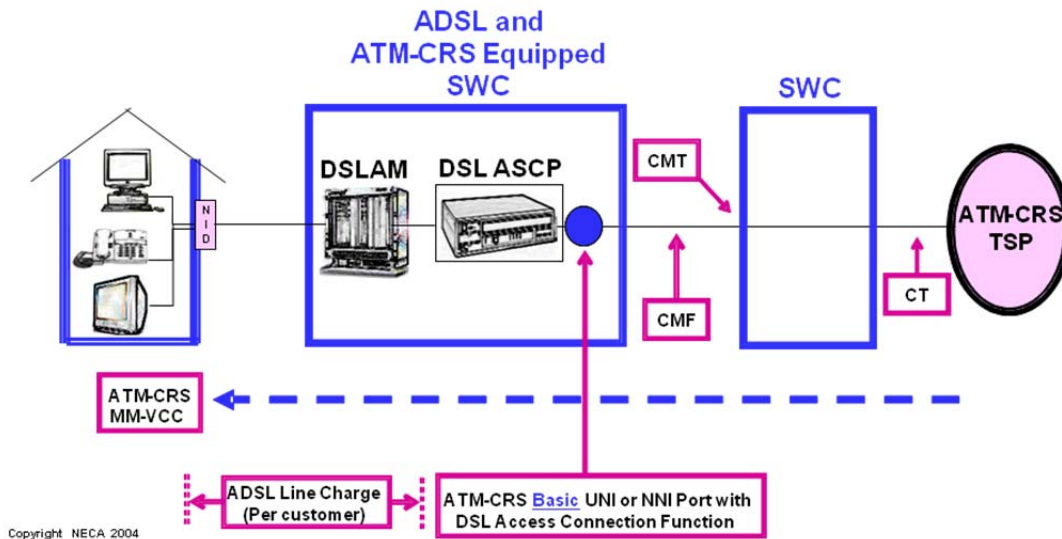


Network Configuration Diagrams (continued)

ATM-CRS Ethernet Port



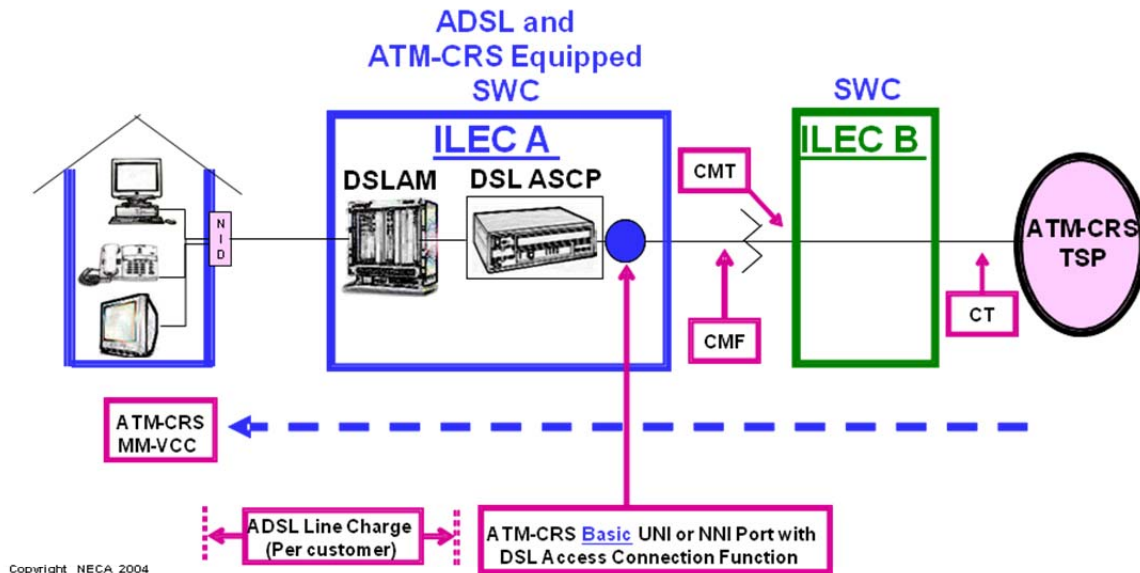
ATM-CRS Basic Port



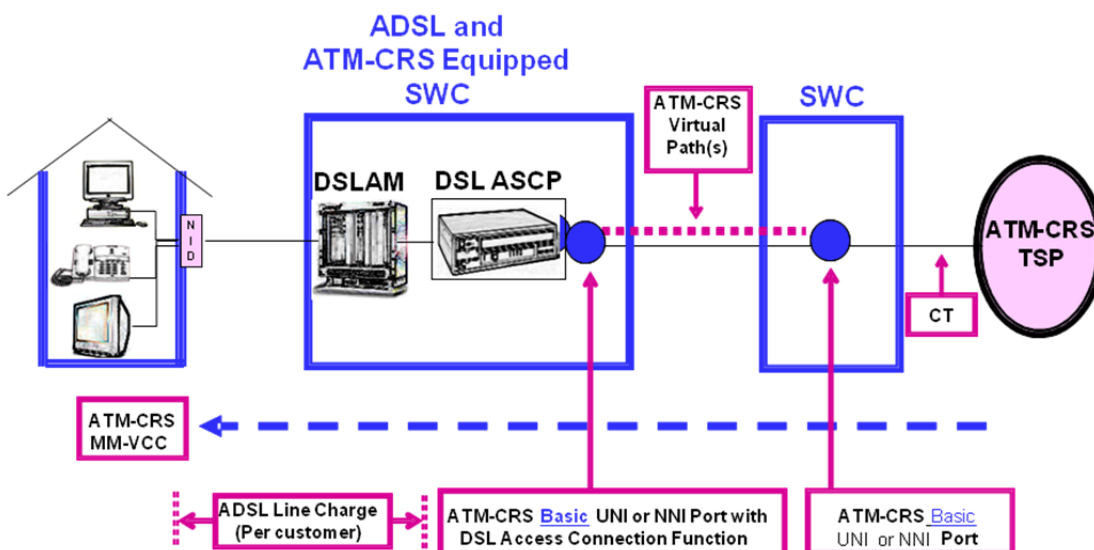
Network Configuration Diagrams (continued)

ATM-CRS Basic Port

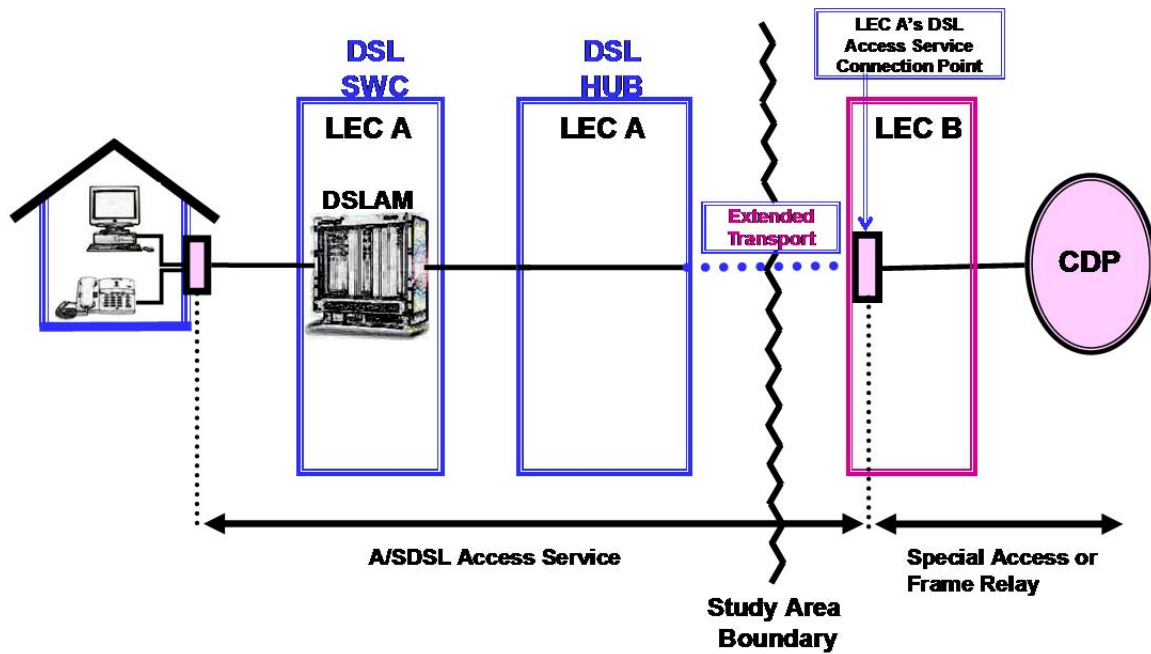
Assumes both ILECS are NECA TS Pool participants



ATM-CRS Multiple Ports

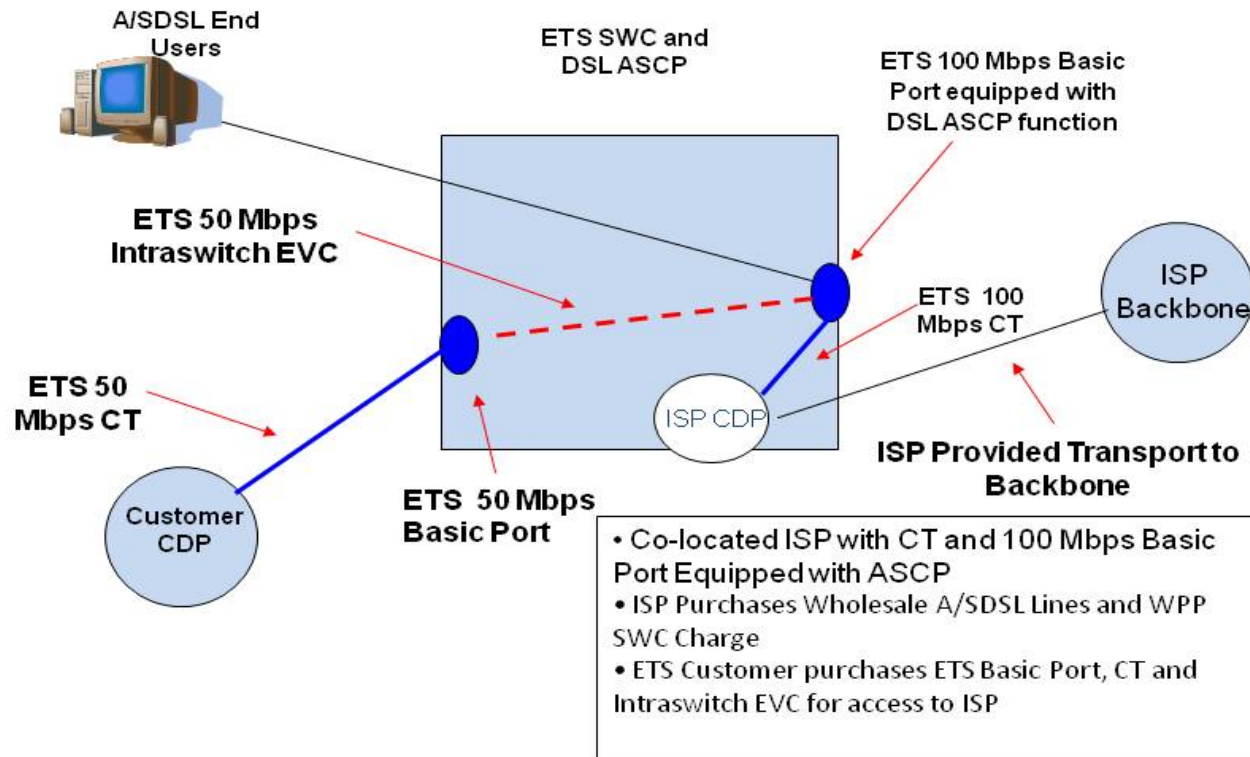


DSL Extended Transport



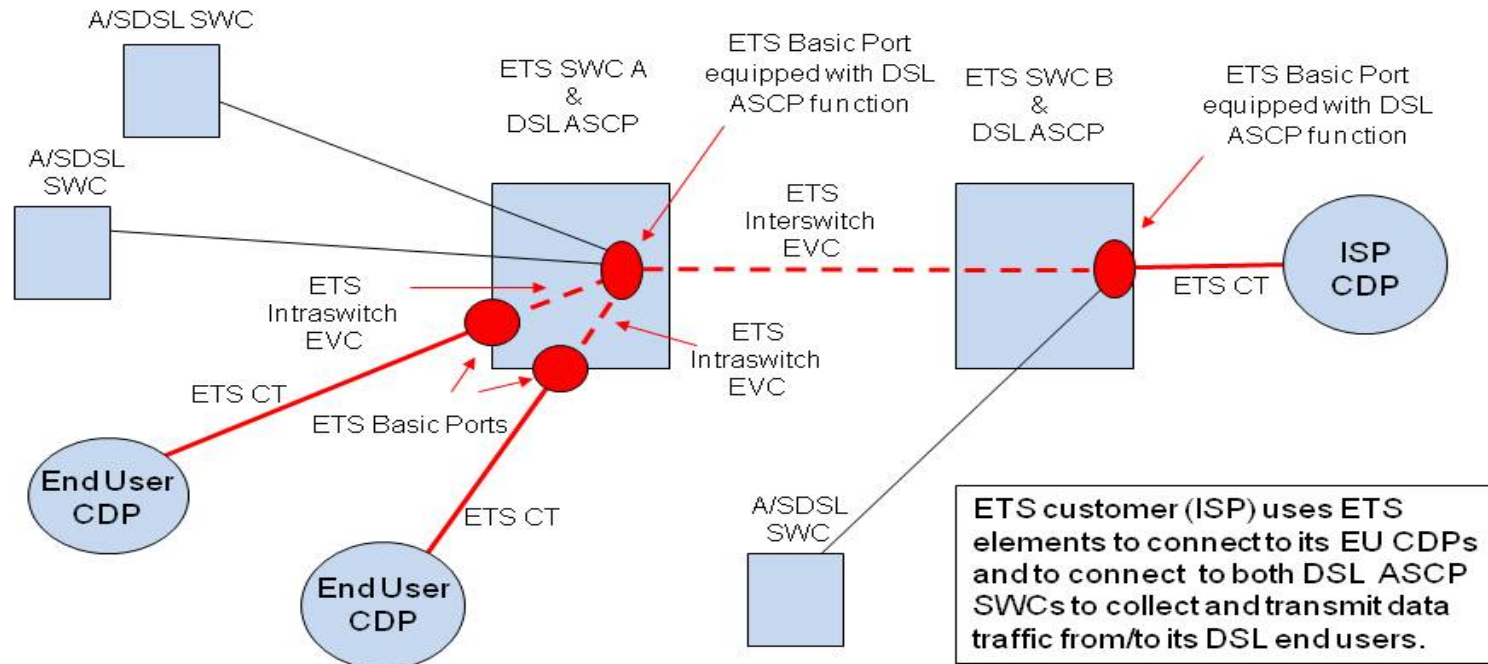
Network Configuration Diagrams (continued)

ETS – Co-located ISP with ETS ASCP & DSL

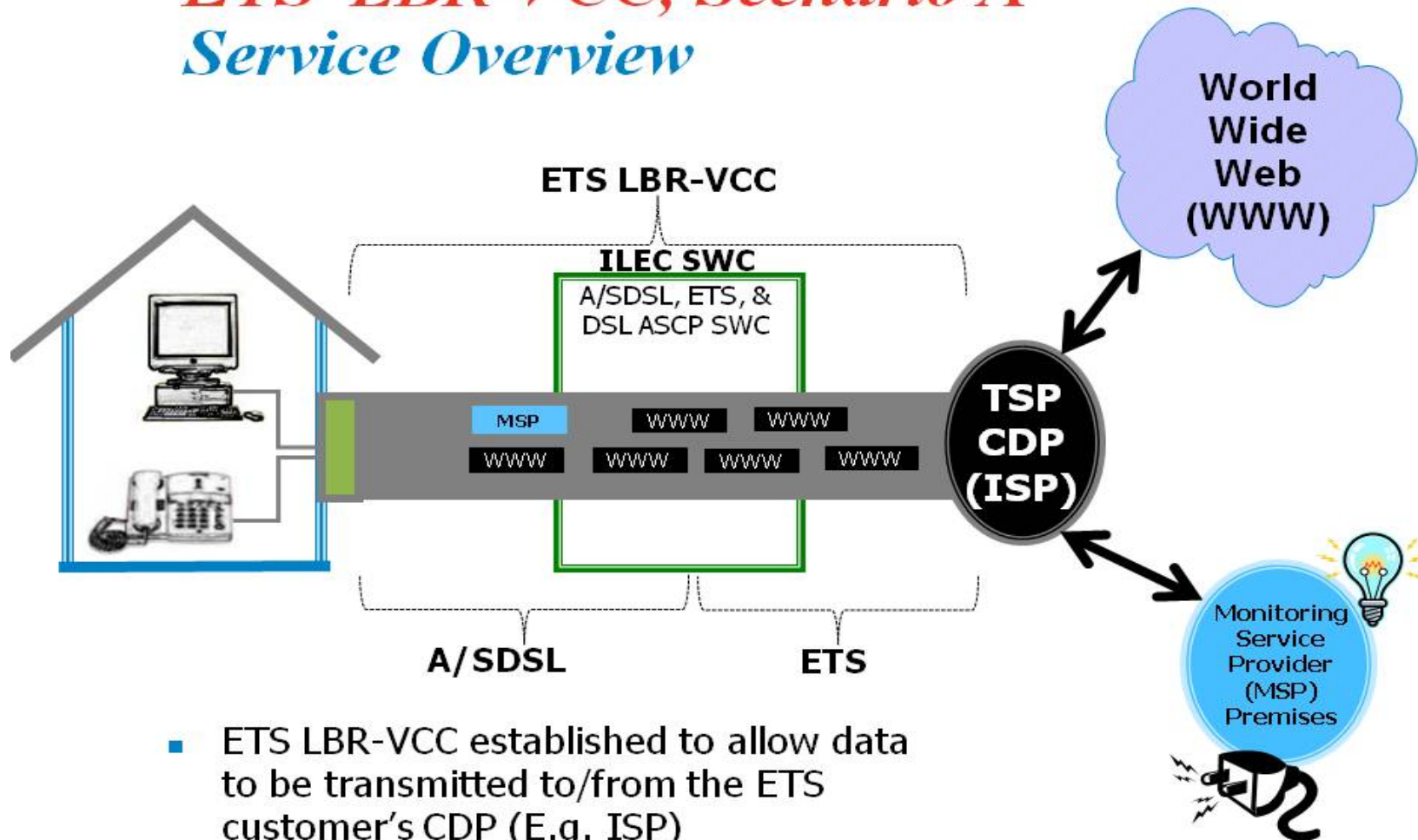


Network Configuration Diagrams (continued)

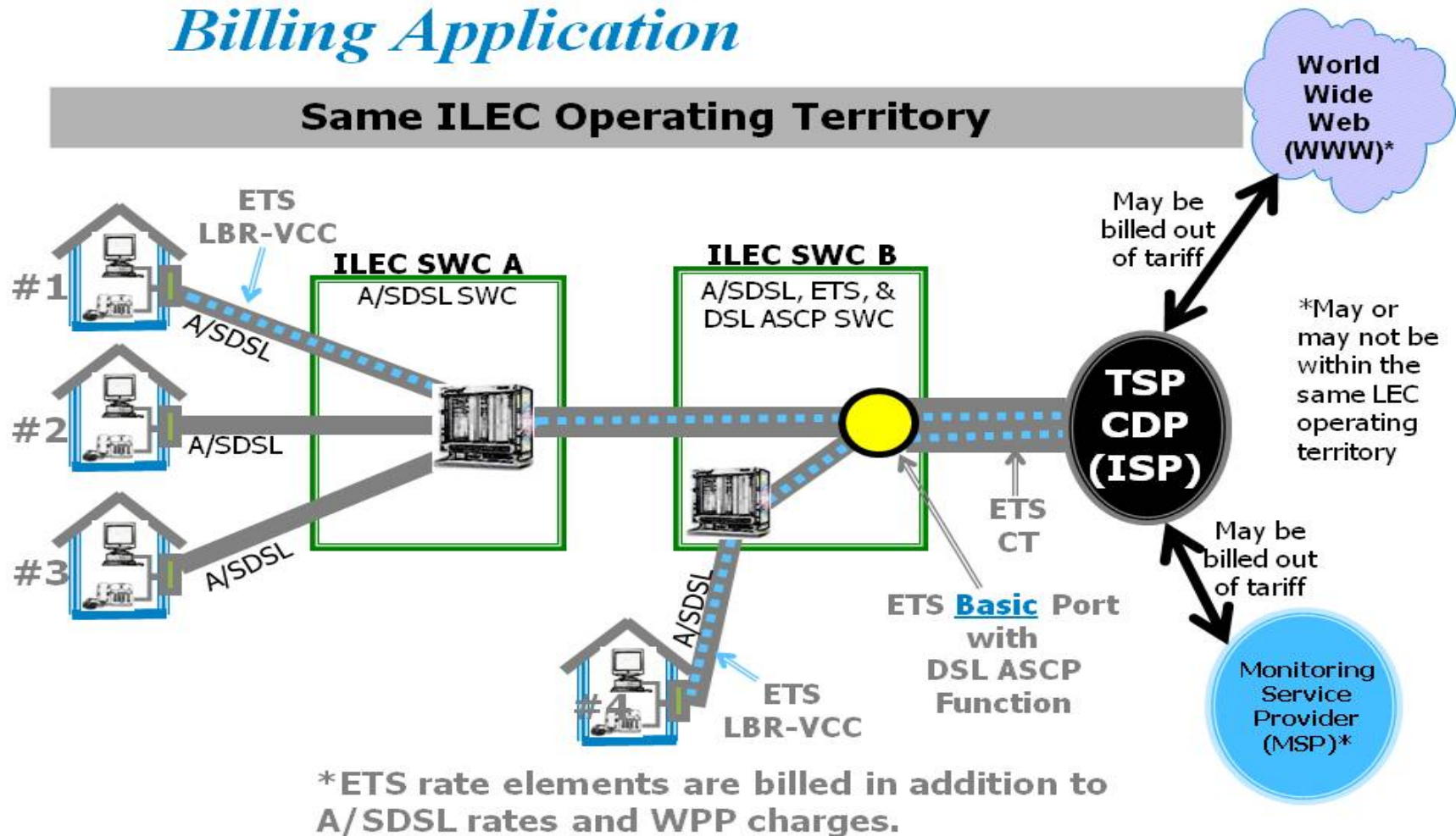
ETS – Multiple ETS and DSL Connections



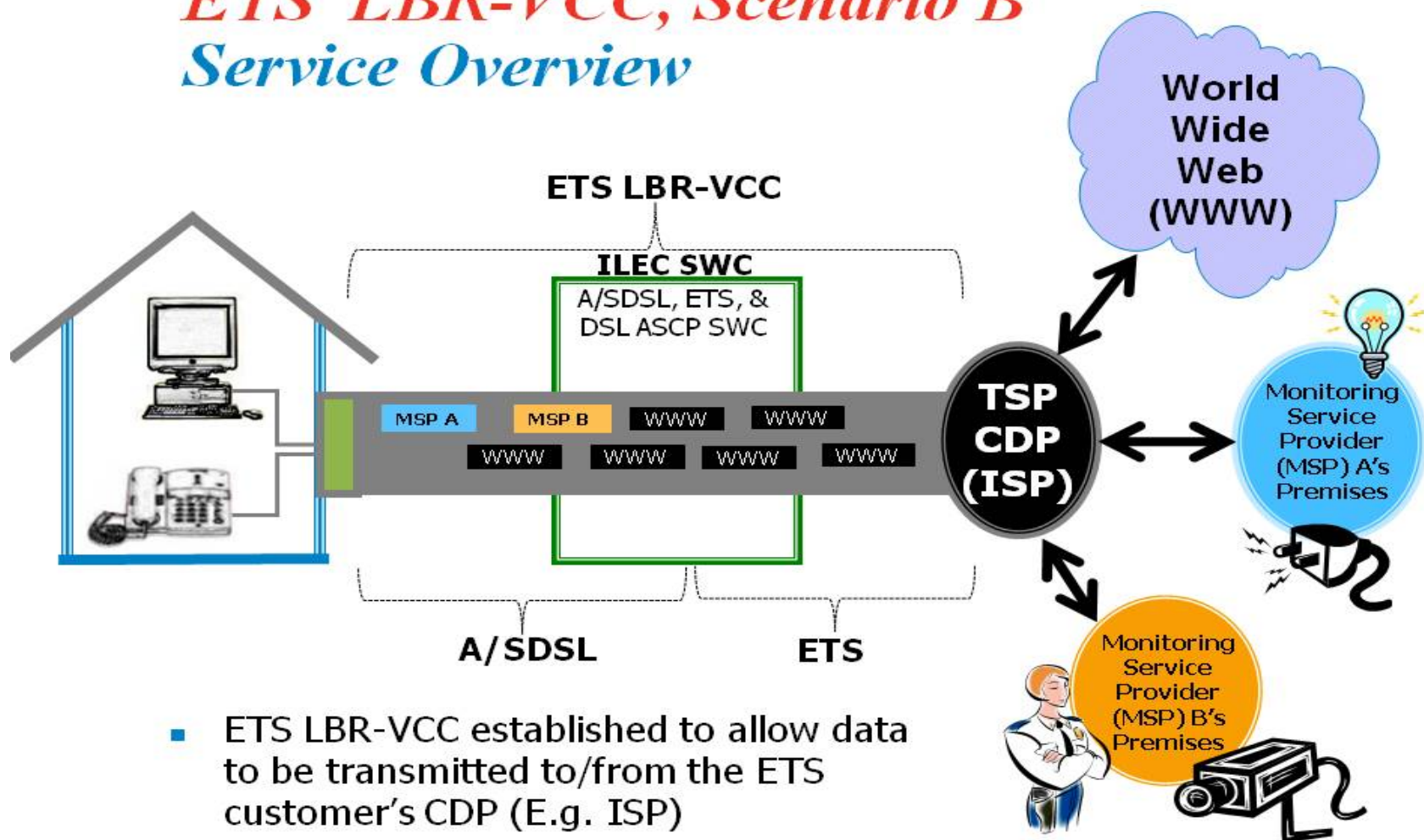
ETS LBR-VCC, Scenario A Service Overview



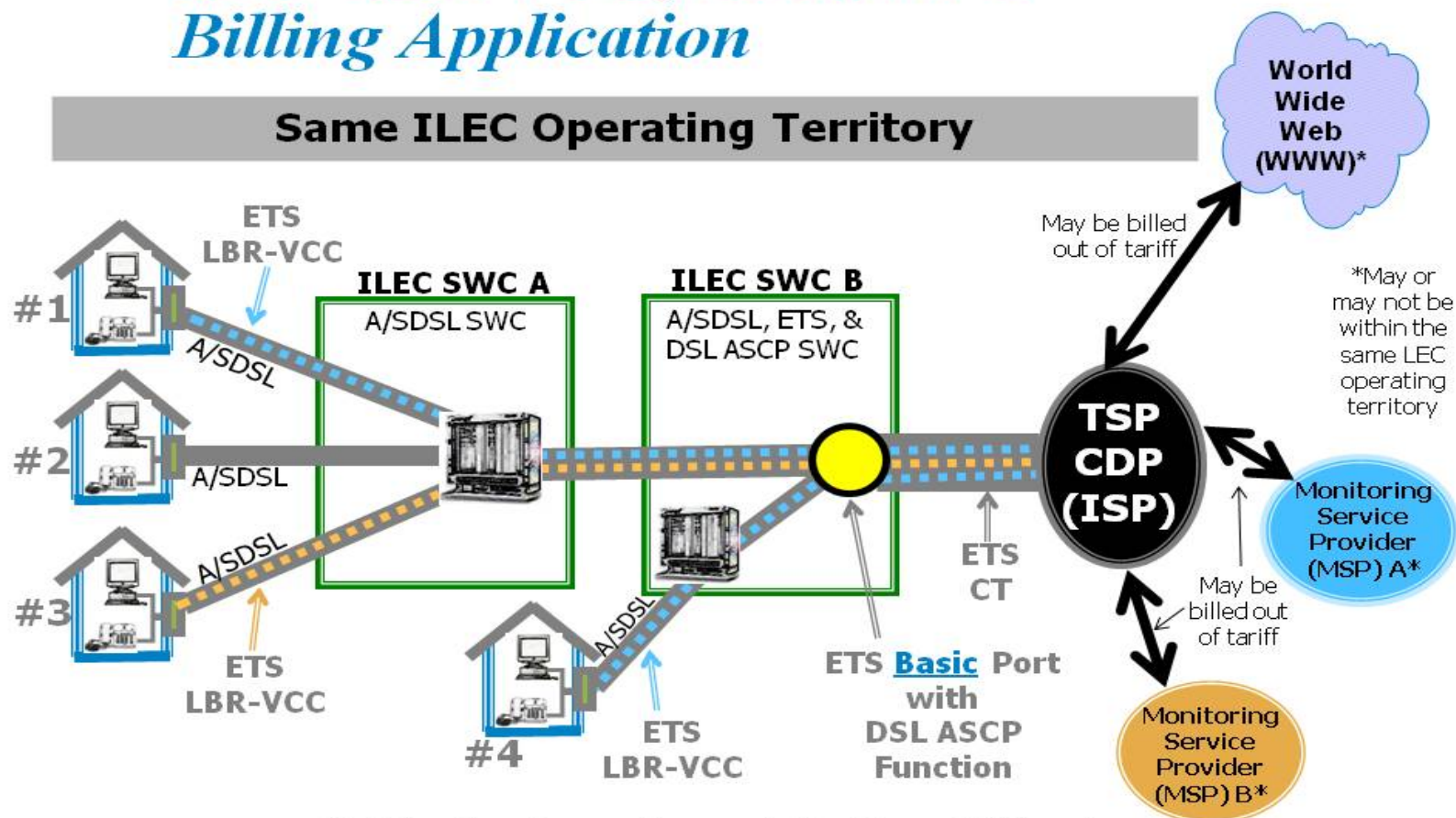
ETS LBR-VCC, Scenario A Billing Application



ETS LBR-VCC, Scenario B Service Overview



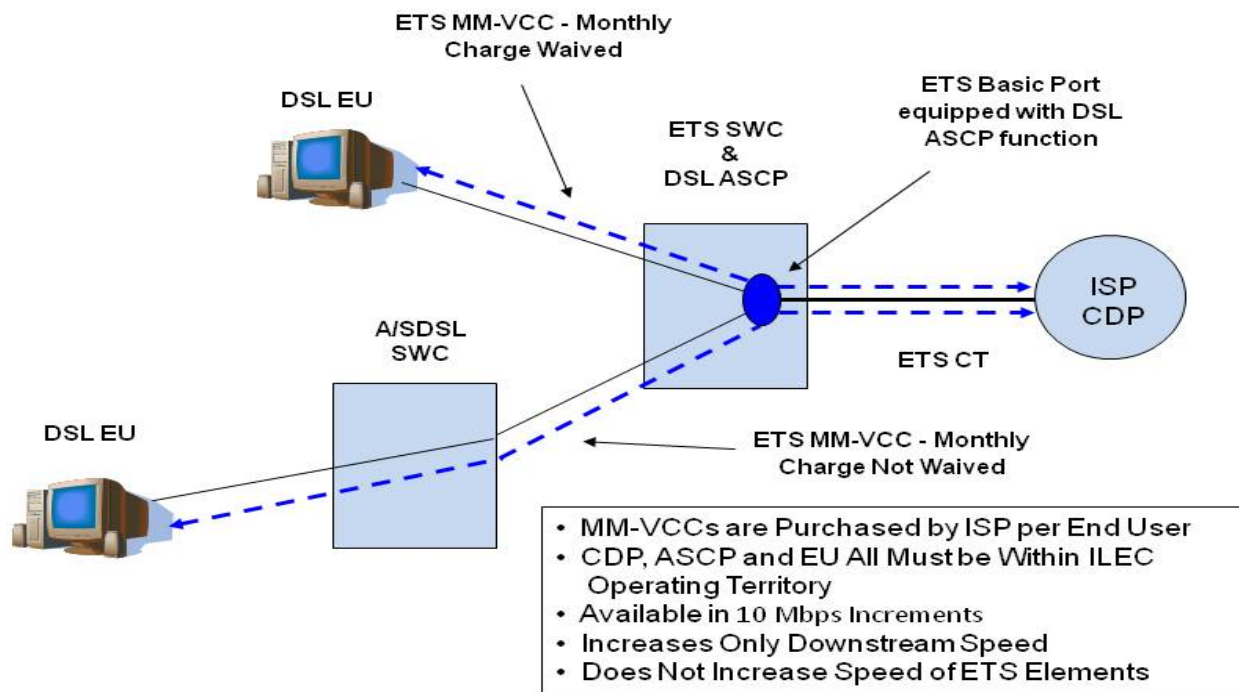
ETS LBR-VCC, Scenario B Billing Application



*ETS rate elements are billed in addition to A/SDSL rates and WPP charges.

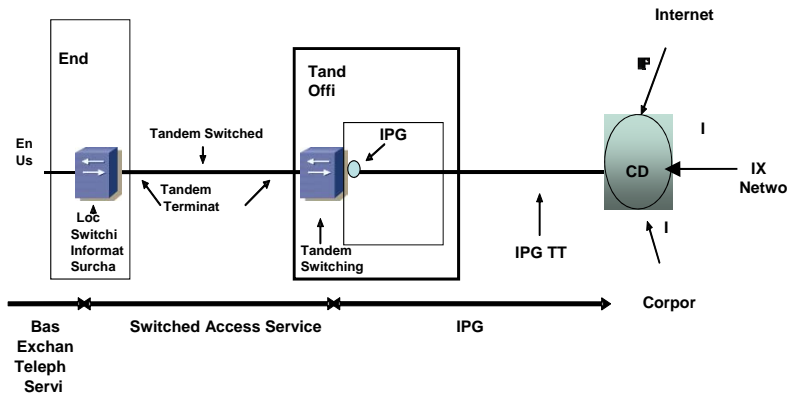
Network Configuration Diagrams (Continued)

Ethernet Transport Service – MM-VCCs

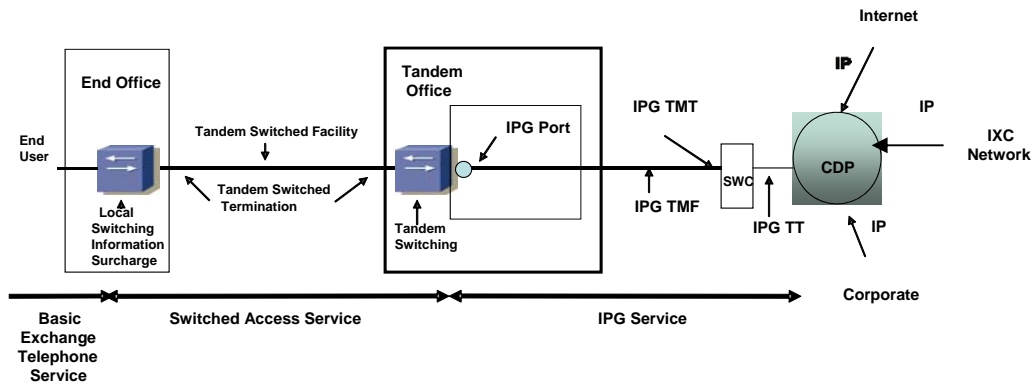


Network Configuration Diagrams (Continued)

IP Gateway Access IP Gateway Located at Tandem

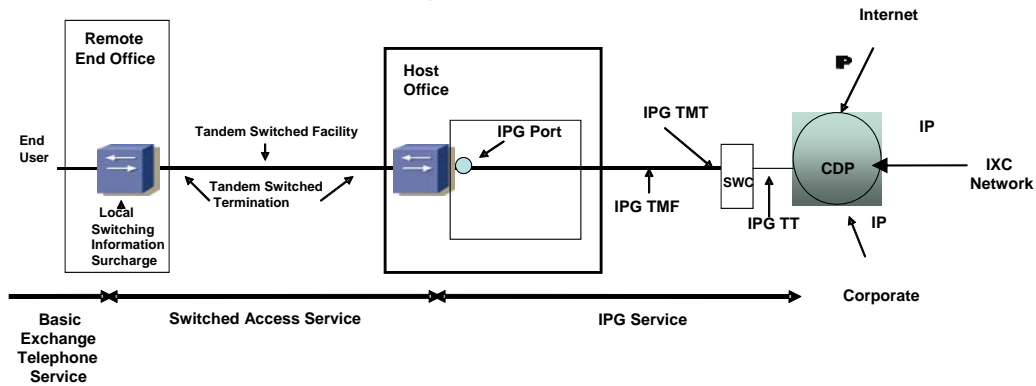


IP Gateway Access Service (IPG) IP Gateway Located at Tandem Office



Network Configuration Diagrams (Continued)

IP Gateway Access Service (IPG) IP Gateway Located at Host Office



IP Gateway Access Service (IPG) IP Gateway at End Office

