

ACCESS SERVICE

CHECK SHEET

Title Pages 1 to 68 and Pages 1 to 17-185 inclusive of this tariff are effective as of the date shown. Original and revised pages as named below and on Supplement Nos. 23, 36, 37, and 39 contain all changes from the original tariff that are in effect on the date hereof.

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
Title 1	4th	Title 31	63rd	Title 61	68th
Title 2	77th	Title 31.1	6th	Title 62	53rd
Title 2.1	10th	Title 32	61st	Title 63	50th
Title 3	53rd	Title 33	46th	Title 64	59th
Title 4	60th	Title 34	68th	Title 65	56th
Title 5	43rd	Title 34.1	8th	Title 65.1	13th
Title 6	57th	Title 35	51st	Title 66	66th
Title 7	64th	Title 36	65th	Title 67	53rd
Title 7.1	25th	Title 36.1	10th	Title 68	33rd
Title 8	69th	Title 37	70th	1	794th *
Title 9	58th	Title 38	61st	1.1	136th *
Title 9.1	17th	Title 39	41st	1.2	136th *
Title 10	56th	Title 40	48th	1.3	88th *
Title 11	46th	Title 41	59th	1.4	204th *
Title 12	27th	Title 42	53rd	1.5	69th
Title 13	66th	Title 43	53rd	1.6	503rd *
Title 14	65th	Title 44	58th	1.7	208th *
Title 14.1	12th	Title 45	59th	1.8	86th *
Title 15	73rd	Title 45.1	6th	1.9	71st
Title 16	69th	Title 46	59th	1.10	15th
Title 16.1	3rd	Title 47	51st	1.11	1st
Title 17	54th	Title 48	49th	2	2nd
Title 18	54th	Title 49	58th	3	2nd
Title 19	67th	Title 50	65th	4	14th
Title 20	59th	Title 51	62nd	5	6th
Title 20.1	3rd	Title 52	66th	6	13th
Title 21	78th	Title 53	62nd	6.1	4th
Title 22	46th	Title 54	64th	7	5th
Title 22.1	4th	Title 55	71st	8	7th
Title 23	76th	Title 56	65th	9	4th
Title 23.1	6th	Title 57	58th	10	6th
Title 24	79th	Title 58	54th	11	4th
Title 24.1	Original	Title 59	77th	12	2nd
Title 25	67th	Title 60	60th	13	7th
Title 26	69th	Title 60.1	5th		
Title 27	58th				
Title 28	64th				
Title 29	57th				
Title 30	61st				

* New or revised page. Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

CHECK SHEET (Cont'd)

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
14	4th	2-4	1st	2-33	12th *
15	1st	2-5	1st	2-33.1	1st
16	11th	2-6	1st	2-34	6th
16.1	4th	2-7	1st	2-35	5th *
17	4th	2-8	2nd	2-35.1	Original *
18	1st	2-9	5th	2-36	6th
19	13th	2-9.1	1st	2-36.1	8th *
20	16th	2-9.2	Original	2-37	1st
21	17th	2-10	5th	2-38	3rd
21.1	5th	2-11	6th	2-39	1st
22	7th	2-12	1st	2-40	1st
23	1st	2-13	1st	2-41	1st
24	2nd	2-14	1st	2-42	5th
25	2nd	2-15	1st	2-43	6th
26	1st	2-16	1st	2-44	5th
27	2nd	2-17	1st	2-45	7th
28	3rd	2-18	6th	2-46	5th
29	3rd	2-18.1	5th	2-47	5th
30	2nd	2-18.2	Original	2-48	4th
31	3rd	2-18.3	Original	2-49	5th
32	3rd	2-19	8th	2-50	5th *
33	10th *	2-19.1	2nd *	2-51	5th
34	6th	2-19.2	1st *	2-52	4th
35	7th	2-20	10th	2-52.1	5th
36	4th	2-21	5th	2-53	4th
37	3rd	2-21.1	Original	2-54	6th
38	2nd	2-22	7th	2-55	9th
39	2nd	2-23	7th	2-56	9th
40	6th	2-24	6th	2-57	3rd
41	5th	2-24.1	Original	2-58	5th
42	1st	2-24.2	Original	2-59	6th
43	13th	2-24.3	Original	2-59.1	Original *
44	23rd *	2-25	5th	2-59.2	Original *
44.1	3rd	2-26	9th	2-59.3	Original *
45	17th	2-26.1	6th	2-60	4th
46	25th	2-26.2	3rd	2-61	9th
47	10th	2-26.3	1st	2-62	10th
48	9th	2-26.4	2nd	2-62.1	3rd
49	13th	2-27	9th	2-63	4th
50	4th	2-28	7th	2-63.1	Original
50.1	Original	2-29	6th	2-64	5th
50.2	2nd	2-30	1st	2-64.1	Original
51	Original	2-31	3rd	2-65	6th
52	Original *	2-31.1	Original	2-65.1	4th
1-1	7th	2-31.2	Original		
2-1	1st	2-32	4th		
2-2	1st	2-32.1	Original		
2-3	2nd				

* New or revised page. Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

CHECK SHEET (Cont'd)

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
2-66	5th	4-1	4th	5-17	25th
2-67	4th	4-2	2nd	5-17.1	28th
2-68	1st	4-3	4th	5-17.1.1	9th
2-69	4th	4-4	6th	5-17.2	8th
2-69.1	2nd	4-5	2nd	5-18	10th
2-70	6th	4-6	3rd	5-18.1	1st
2-70.1	2nd	4-7	5th	5-19	3rd
2-70.2	1st	4-8	4th	5-20	8th
2-71	3rd	5-1	2nd	5-21	17th *
2-72	4th	5-2	5th	5-21.1	Original
2-72.1	Original	5-3	4th	5-22	6th
2-73	5th	5-4	2nd	5-23	6th
2-73.1	1st	5-5	9th *	5-24	11th
2-74	5th	5-5.1	4th	6-1	10th
2-75	6th	5-5.2	Original	6-1.1	Original
2-75.1	1st	5-6	6th	6-2	8th
2-76	7th	5-7	12th *	6-2.1	2nd *
2-77	7th	5-7.1	Original	6-2.2	Original *
2-77.1	2nd	5-8	7th	6-2.3	Original *
2-78	13th	5-8.1	Original	6-3	6th *
2-78.1	5th	5-9	6th	6-4	10th *
2-78.2	Original	5-9.1	6th	6-5	4th
2-79	1st	5-9.2	Original *	6-6	7th
2-80	2nd	5-10	6th	6-7	8th *
3-1	8th	5-10.1	5th	6-7.1	7th *
3-2	6th	5-10.2	4th	6-7.1.1	Original *
3-3	5th	5-10.2.1	Original	6-7.2	3rd *
3-4	5th	5-10.3	3rd	6-7.3	Original
3-5	6th	5-10.3.1	Original	6-8	12th *
3-6	5th	5-11	3rd *	6-8.1	9th *
3-7	6th	5-11.1	Original *	6-8.1.1	2nd *
3-8	6th	5-12	4th	6-8.1.2	Original *
3-9	5th	5-12.1	4th	6-8.2	6th *
3-10	5th	5-12.2	1st	6-8.3	6th *
3-11	5th	5-12.3	Original	6-8.3.1	1st *
3-12	6th	5-12.3.1	Original	6-8.3.2	Original *
3-13	6th	5-12.3.2	Original	6-8.4	10th *
3-14	6th	5-12.4	2nd	6-8.4.1	Original *
3-15	6th	5-12.4.1	1st	6-8.4.2	Original *
3-16	7th	5-12.5	1st	6-8.4.3	Original *
3-17	6th	5-13	5th	6-8.5	2nd
3-18	7th	5-14	4th	6-9	11th *
3-19	6th	5-15	4th	6-9.1	6th *
3-20	5th	5-16	4th	6-9.2	2nd *
3-21	7th	5-16.1	Original		
3-22	10th				
3-23	12th				
3-24	15th				
3-25	10th				
3-25.1	7th				
3-26	2nd				

* New or revised page.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

CHECK SHEET (Cont'd)

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
6-10	10th *	6-45	4th	6-83	3rd
6-10.1	2nd *	6-46	2nd	6-84	4th
6-11	8th *	6-47	2nd	6-85	6th
6-11.1	7th *	6-48	9th	6-86	1st
6-12	10th *	6-49	10th	6-87	2nd
6-12.1	Original *	6-50	4th	6-88	1st
6-13	8th *	6-51	6th	6-89	5th
6-14	8th	6-51.1	9th	6-89.1	Original
6-15	2nd	6-51.2	7th	6-90	4th
6-15.1	1st	6-52	5th *	6-91	6th
6-16	3rd	6-52.1	Original *	6-92	9th
6-17	6th	6-53	1st	6-92.1	4th *
6-18	7th	6-54	1st	6-93	2nd
6-18.1	5th	6-55	1st	6-94	11th
6-18.2	6th	6-56	1st	6-94.1	1st *
6-19	4th *	6-57	4th	6-95	11th *
6-20	4th	6-57.1	Original *	6-96	8th
6-21	3rd	6-58	2nd	6-96.1	3rd
6-22	2nd	6-59	1st	6-97	3rd
6-23	4th	6-60	1st	6-98	2nd
6-24	1st	6-61	1st	6-99	1st
6-25	1st	6-62	3rd	6-100	3rd
6-26	2nd	6-62.1	2nd	6-101	3rd
6-26.1	1st *	6-63	1st	6-101.1	4th
6-27	11th	6-64	2nd	6-102	5th
6-28	10th *	6-65	2nd	6-103	3rd
6-28.1	2nd *	6-66	4th	6-103.1	4th
6-28.2	Original *	6-67	9th *	6-104	5th
6-29	2nd	6-68	1st	6-105	11th
6-30	8th	6-69	1st	6-106	4th
6-30.1	4th	6-70	2nd	6-107	3rd
6-30.1.1	2nd	6-71	1st	6-108	6th
6-31	8th	6-72	2nd	6-109	5th
6-32	14th	6-72.1	1st	6-110	4th
6-32.1	4th	6-73	2nd	6-111	7th
6-32.2	7th	6-73.1	1st	6-111.1	1st
6-33	4th	6-74	3rd	6-112	5th
6-34	2nd	6-75	3rd	6-113	5th
6-35	2nd	6-76	1st	6-114	4th
6-36	2nd	6-77	4th	6-115	5th
6-37	5th	6-78	7th	6-116	4th
6-38	2nd	6-78.1	Original *	6-117	6th
6-39	8th	6-79	1st	6-117.1	4th
6-40	6th	6-80	8th	6-117.2	4th
6-41	3rd	6-80.1	3rd	6-117.3	2nd
6-42	3rd	6-81	2nd	6-117.4	2nd
6-43	3rd	6-82	4th	6-117.5	2nd
6-44	5th				

* New or revised page. Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

CHECK SHEET (Cont'd)

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
6-118	4th	7-27.4	4th	7-53	6th
6-119	5th	7-27.4.1	Original	7-54	7th
6-120	8th	7-27.4.2	1st	7-54.1	6th
6-121	2nd	7-27.4.3	Original	7-54.2	1st
6-122	6th	7-27.4.4	Original	7-54.3	8th
6-123	8th	7-27.4.5	Original	7-55	1st
6-124	5th	7-27.4.6	Original	8-1	20th
6-124.1	1st	7-27.4.7	Original	8-1.1	8th
6-125	3rd *	7-27.5	5th	8-1.2	6th
6-125.1	Original *	7-27.6	4th	8-2	17th
6-125.2	Original *	7-27.7	4th	8-2.1	3rd
6-126	Original *	7-27.8	5th	8-2.2	2nd
7-1	7th	7-27.8.1	Original	8-2.3	6th
7-1.1	Original	7-27.9	3rd	8.2.4	4th
7-2	4th	7-27.9.1	Original	8-3	17th
7-3	5th	7-27.10	4th	8-3.1	12th
7-4	9th	7-27.11	4th	8-4	13th
7-5	4th	7-27.11.1	Original	8-5	12th
7-5.1	Original	7-27.11.2	Original	8-6	14th
7-6	13th	7-27.11.3	Original	8-6.1	5th
7-6.1	3rd	7-27.11.4	Original	8-6.1.1	4th
7-7	2nd	7-27.11.5	Original	8-6.1.1.1	2nd
7-8	4th	7-27.11.6	Original	8-6.1.1.2	1st
7-9	2nd	7-27.12	3rd	8-6.1.2	8th
7-10	2nd	7-27.13	Original	8-6.1.3	8th
7-10.1	4th	7-28	2nd	8-6.1.3.1	Original
7-10.2	1st	7-29	3rd	8-6.1.4	3rd
7-11	1st	7-30	2nd	8-6.1.5	3rd
7-12	1st	7-31	2nd	8-6.2	36th
7-13	12th	7-32	4th	8-6.3	45th
7-13.1	9th	7-32.1	7th	8-6.4	33rd
7-13.2	Original	7-33	4th	8-6.5	14th
7-14	7th	7-34	4th	8-7	19th
7-14.1	6th	7-35	3rd	8-7.1	5th
7-14.2	1st	7-36	3rd	8-7.2	1st
7-14.3	Original	7-37	4th	8-8	11th
7-15	7th	7-38	6th	8-8.1	1st
7-15.1	Original	7-39	5th	8-8.2	Original
7-16	1st	7-40	3rd	8-9	10th
7-17	2nd	7-41	1st	8-10	12th
7-18	2nd	7-42	3rd	8-11	4th
7-19	4th	7-43	1st	8-12	7th
7-20	4th	7-44	3rd	8-12.1	4th
7-21	5th	7-45	7th	8-12.2	3rd
7-22	8th	7-46	5th	8-12.2.1	1st
7-22.1	Original	7-46.1	1st	8-12.3	4th
7-23	3rd	7-47	10th	8-12.4	2nd
7-24	3rd	7-47.1	4th	8-12.5	Original
7-25	3rd	7-48	1st	8-13	13th
7-26	3rd	7-49	1st	8-13.1	8th
7-26.1	1st	7-50	2nd	8-13.1.1	1st
7-26.2	1st	7-51	5th	8-13.2	6th
7-27	9th	7-51.1	1st	8-14	3rd
7-27.1	7th	7-51.2	9th	8-15	5th
7-27.1.1	6th	7-52	8th	8-16	7th
7-27.1.2	Original	7-52.1	5th	8-17	4th
7-27.2	4th			8-17.1	1st
7-27.3	4th			8-18	5th
				8-18.1	1st

* New or revised page. Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

CHECK SHEET (Cont'd)

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
16-1	8th	16-32.10	Original	16-53.1	2nd
16-1.1	1st	16-32.11	Original	16-54	5th
16-2	4th	16-32.12	Original	16-54.1	1st
16-2.1	7th	16-32.13	Original	16-54.2	Original
16-3	3rd	16-32.14	Original	16-55	Original
16-3.1	2nd	16-32.15	Original	16-56	1st
16-3.2	1st	16-32.16	Original	16-57	2nd
16-4	2nd	16-33	2nd	16-57.1	Original
16-5	3rd	16-33.1	Original	16-58	5th
16-5.1	3rd	16-34	4th	16-58.1	Original
16-5.2	1st	16-34.1	1st	16-58.2	Original *
16-5.3	Original	16-35	Original	16-58.3	Original *
16-6	2nd	16-36	Original	16-58.4	Original *
16-7	3rd	16-37	Original	16-58.5	Original *
16-7.1	3rd	16-38	Original	16-59	Original
16-8	6th	16-39	2nd	16-60	5th
16-9	2nd	16-39.1	1st	16-61	5th
16-10	2nd	16-40	3rd	16-62	Original
16-11	2nd	16-40.1	1st	16-63	Original
16-12	2nd	16-41	Original	16-64	Original
16-12.1	Original	16-42	2nd	16-65	Original
16-13	2nd	16-42.1	Original	16-66	Original
16-13.1	Original	16-43	3rd	16-67	Original
16-14	1st	16-43.1	1st	16-68	Original
16-15	1st	16-44	3rd	16-69	Original
16-16	Original	16-44.1	2nd *	16-70	Original
16-17	5th	16-44.1.1	Original *	16-71	Original
16-18	1st	16-44.1.2	Original *	16-72	Original
16-19	Original	16-44.2	1st *	16-72.1	Original
16-20	1st	16-44.3	1st *	16-72.2	Original
16-21	Original	16-44.4	1st *	16-73	2nd
16-22	Original	16-44.5	1st *	16-73.1	1st
16-23	Original	16-44.6	1st	16-73.2	1st
16-24	Original	16-44.7	2nd *	16-73.3	Original
16-25	2nd	16-44.8	Original	16-74	2nd
16-26	4th	16-45	3rd	16-74.1	1st
16-26.1	2nd	16-45.1	2nd	16-75	1st
16-27	4th	16-45.2	3rd	16-76	1st
16-27.1	5th	16-45.3	1st	16-77	1st
16-27.1.1	1st	16-46	1st	16-78	1st
16-27.1.2	Original	16-47	2nd	16-79	1st
16-27.2	Original	16-48	1st	16-80	1st
16-28	1st	16-49	1st	16-81	1st
16-29	Original	16-50	4th	16-82	Original
16-30	Original	16-51	3rd	16-83	Original
16-31	Original	16-51.1	Original	16-84	2nd
16-32	2nd	16-51.2	Original	16-85	1st
16-32.1	Original	16-51.3	Original	16-86	Original
16-32.2	Original	16-51.4	Original	16-87	Original
16-32.3	1st	16-51.5	1st	16-88	Original
16-32.4	Original	16-51.6	1st	16-89	Original
16-32.5	Original	16-51.7	1st	16-90	Original
16-32.6	Original	16-51.8	Original	17-1	55th
16-32.7	Original	16-52	1st	17-1.1	2nd
16-32.8	Original	16-53	2nd	17-2	22nd
16-32.9	Original			17-2.1	10th
				17-2.2	5th
				17-3	64th

* New or revised page. Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

CHECK SHEET (Cont'd)

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
17-4	20th				
17-5	17th	17-21.2.1	Original	17-29.7	3rd
17-6	12th	17-21.3	9th	17-29.8	23rd
17-7	8th	17-22	21st	17-29.8.1	9th
17-8	5th	17-23	37th	17-29.8.2	Original
17-8.1	6th	17-23.1	9th	17-29.8.3	Original
17-8.2	2nd	17-23.2	Original	17-29.8.4	Original
17-9	31st *	17-24	43rd	17-29.9	20th
17-10	34th *	17-24.1	9th	17-29.9.1	9th
17-10.1	40th *	17-24.2	Original	17-29.9.2	9th
17-10.1.1	7th *	17-25	21st	17-29.9.3	9th
17-10.1.2	Original *	17-25.1	8th	17-30	15th
17-10.1.3	Original *	17-26	42nd	17-31	19th
17-10.1.4	Original *	17-26.1	9th	17-32	19th
17-10.2	29th	17-26.2	Original	17-33	19th
17-10.2.1	24th	17-26.3	Original	17-34	1st
17-10.2.1.1	7th	17-27	37th	17-35	1st
17-10.2.1.2	7th	17-27.1	9th	17-36	1st
17-10.3	27th	17-27.2	9th	17-36.1	Original
17-10.4	Original *	17-27.3	Original	17-37	16th
17-11	48th	17-27.4	Original	17-37.1	7th
17-11.1	31st	17-28	31st	17-37.2	13th
17-12	34th	17-28.1	9th	17-37.3	7th
17-13	6th	17-28.2	Original	17-37.4	14th
17-14	1st	17-29	7th	17-37.4.1	31st
17-15	41st	17-29.1	7th	17-37.4.1.1	8th
17-15.1	10th	17-29.2	4th	17-37.4.1.2	5th
17-15.2	Original	17-29.2.1	17th	17-37.4.1.3	5th
17-15.3	Original	17-29.3	80th	17-37.4.1.4	17th
17-16	39th	17-29.3.1	38th	17-37.4.1.5	16th
17-16.1	9th	17-29.3.1.1	2nd	17-37.4.1.6	13th
17-16.2	Original	17-29.3.2	34th	17-37.4.1.7	12th
17-17	39th	17-29.3.3	11th	17-37.4.1.8	10th
17-17.1	9th	17-29.4	62nd	17-37.4.1.9	15th
17-17.2	Original	17-29.4.1	70th	17-37.4.1.10	15th
17-17.3	Original	17-29.4.1.1	32nd	17-37.4.1.11	18th
17-18	22nd	17-29.4.1.2	22nd	17-37.4.1.12	11th
17-18.1	Original	17-29.4.1.3	2nd	17-37.4.2	31st
17-19	23rd	17-29.4.2	39th	17-37.4.2.1	25th
17-19.1	9th	17-29.4.3	23rd	17-37.4.2.2	20th
17-19.2	Original	17-29.4.4	5th	17-37.4.3	2nd
17-19.3	Original	17-29.5	66th	17-37.4.3.1	1st
17-20	23rd	17-29.5.1	46th	17-37.4.4	1st
17-20.1	9th	17-29.5.1.1	22nd	17-37.4.5	1st
17-20.2	Original	17-29.5.2	49th	17-37.4.5.1	1st
17-20.3	Original	17-29.5.3	29th	17-37.5	21st
17-21	40th	17-29.5.4	31st	17-37.5.1	12th
17-21.1	9th	17-29.5.5	8th	17-37.6	Original
17-21.1.1	3rd	17-29.6	4th	17-38	1st
17-21.1.2	Original				
17-21.1.3	Original				
17-21.2	9th				

* New or revised page. Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

CHECK SHEET (Cont'd)

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
17-38.1	6th	17-41.8.1.4	Original	17-41.10.17	Original
17-39	1st	17-41.8.2	11th *	17-41.10.18	Original
17-40	7th	17-41.8.2.1	6th	17-41.10.19	Original
17-40.1	Original	17-41.8.2.2	7th *	17-41.10.20	Original
17-41	22nd	17-41.8.2.3	Original	17-41.10.21	Original
17-41.1	15th	17-41.8.2.4	1st *	17-41.10.22	Original
17-41.1.1	9th	17-41.8.3	8th	17-41.10.23	Original
17-41.1.1.1	Original	17-41.8.3.1	6th	17-41.10.24	Original
17-41.1.1.2	9th	17-41.8.3.2	6th	17-41.10.25	Original
17-41.1.2.1	Original	17-41.8.4	5th	17-41.10.26	Original
17-41.1.3	9th	17-41.9	4th	17-41.10.27	Original
17-41.1.3.1	Original	17-41.10	16th	17-41.10.28	Original
17-41.1.3.2	Original	17-41.10.1	4th	17-41.10.29	Original
17-41.2	18th	17-41.10.1.1	1st	17-41.10.30	Original
17-41.2.1	9th	17-41.10.2	1st	17-41.10.31	Original
17-41.2.1.1	Original	17-41.10.2.1	Original	17-41.10.32	Original
17-41.2.1.2	Original	17-41.10.2.2	Original	17-41.10.33	Original
17-41.3	15th	17-41.10.3	1st	17-41.10.34	Original
17-41.3.1	9th	17-41.10.3.1	Original	17-41.10.35	Original
17-41.3.1.1	Original	17-41.10.3.2	Original	17-41.10.36	Original
17-41.3.2	9th	17-41.10.4	1st	17-41.10.37	Original
17-41.4	18th	17-41.10.4.1	Original	17-41.10.38	Original
17-41.4.1	Original	17-41.10.4.2	Original	17-41.10.39	Original
17-41.5	16th	17-41.10.5	1st	17-41.10.40	1st
17-41.5.1	Original	17-41.10.6	1st	17-41.10.41	Original
17-41.6	13th	17-41.10.7	1st	17-41.10.42	Original
17-41.6.1	12th	17-41.10.7.1	Original	17-41.11	7th
17-41.6.1.1	6th	17-41.10.7.2	Original	17-41.11.1	Original
17-41.6.2	7th	17-41.10.8	1st	17-41.12	7th
17-41.6.2.1	6th	17-41.10.8.1	Original	17-41.12.1	Original
17-41.6.2.2	6th	17-41.10.8.2	Original	17-41.13	7th
17-41.7	12th	17-41.10.9	1st	17-42	5th
17-41.7.1	10th	17-41.10.9.1	Original	17-42.1	25th
17-41.7.1.1	6th	17-41.10.9.2	Original	17-42.1.1	18th
17-41.7.1.2	Original	17-41.10.10	2nd	17-42.1.1.1	Original
17-41.7.1.3	Original	17-41.10.11	1st	17-42.1.1.2	Original
17-41.7.1.4	Original	17-41.10.12	2nd	17-42.1.1.3	Original
17-41.8	11th *	17-41.10.13	1st	17-42.1.1.4	Original
17-41.8.1	10th	17-41.10.14	Original		
17-41.8.1.1	7th *	17-41.10.15	Original		
17-41.8.1.2	6th	17-41.10.16	Original		
17-41.8.1.3	1st *				

* New or revised page. Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

TARIFF USERS GUIDE (Cont'd)

TARIFF STRUCTURE AND ORGANIZATION (Cont'd)

Other Carriers (Page 42)

In addition to Issuing Carriers, all Concurring, Connecting and Other Participating Carriers, are listed in the tariff. There are none in this tariff.

Symbols and Abbreviations (Pages 31, 43, 44 and 44.1)

A listing and explanation of tariff coding symbols and abbreviations used in the tariff are provided.

Technical Publications (Pages 45 through 52)

(T)

The status and availability of technical publications required for the provision of Access Service are provided. These technical publications are referenced throughout the tariff, in many cases in the form of footnotes.

Section 1 - Application of Tariff

States the application of the access service tariff.

Section 2 - General Regulations

States the general regulations that apply to the access services offered by this tariff.

Section 3 - Federal Universal Service Charge, ISDN Line Ports and DS1 Line Port and Section 4 - End User Access Service

States the regulations concerning Federal Universal Service Charge, ISDN Line Ports, DS1 Line Port, and End User Access Service, respectively.

Section 5 - Ordering Options

States the requirements of and regulations governing Access Orders and also the regulations concerning Access Orders when service is provided by multiple exchange carriers.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

EXPLANATION OF ABBREVIATIONS (Cont'd)

EAS	-	Extended Area Service	
EDD	-	Envelope Delay Distortion	
EML	-	Expected Measured Loss	
EPL	-	Echo Path Loss	
ERL	-	Echo Return Loss	
ESALT	-	Ethernet Switched Access Local Transport	(N)
ESS	-	Electronic Switching System	
ESSX	-	Electronic Switching System Exchange	
ETS	-	Ethernet Transport Service	
EVC	-	Ethernet Virtual Connection	
E-EVC	-	Extended Ethernet Virtual Connection	
f	-	frequency	
F.C.C.	-	Federal Communications Commission	
FRAS	-	Frame Relay Access Service	
GETS	-	Government Emergency Telecommunications Service	
HC	-	High Capacity	
HPC	-	High Probability of Completion	
Hz	-	Hertz	
IC	-	Interexchange Carrier	
ICB	-	Individual Case Basis	
ICL	-	Inserted Connection Loss	
I-EVC	-	Interconnected Ethernet Virtual Connection	
IP	-	Internet Protocol	
IPG	-	Internet Protocol Gateway Access Service	
ISDN BRI	-	Integrated Services Digital Network Basic Rate Interface	
ISDN PRI	-	Integrated Services Digital Network Primary Rate Interface	
kbps	-	kilobits per second	
kHz	-	kilohertz	
LAN	-	Local Area Network	
LATA	-	Local Access and Transport Area	
LBR-VCC	-	Low Bit Rate-Virtual Circuit Channel	
LNP	-	Local Number Portability	
LRN	-	Location Routing Number	
ma	-	milliamperes	
Mbps	-	Megabits per second	
mcs	-	Microsecond	
MHz	-	Megahertz	
MM-VCC	-	MultiMedia Virtual Circuit Channel	
MRC	-	Monthly Recurring Charge	
MT	-	Metallic	
MTS	-	Message Telecommunications Service(s)	

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publication is referenced in this tariff and may be obtained from the Metro Ethernet Forum (MEF) 6033 W. Century Boulevard, Suite 1107, Los Angeles, CA 90045 (www.metroethernetforum.org).

Implementation Agreement MEF 23.1, Carrier Ethernet Class of Service - Phase 2, January 2012.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report and Certification Requirements
(Cont'd)

(C) Jurisdictional Reports - Switched Access (Cont'd)

(2) Use of PIU Factors (Cont'd)

(ii) For terminating access minutes, other than as specified in (iii), below, the same data used by the Telephone Company to develop the PIU factor for originating access minutes will be used to develop the PIU factor for such terminating access minutes.

(iii) For terminating Feature Group D access minutes used in conjunction with Ethernet Switched Access Local Transport as described in Section 6.1.1(A), following, or Internet Protocol Gateway Access Service (IPG) as described in Section 16.4, following, the Telephone Company will apply a default PIU of 50% to the customer's terminating access minutes.

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The Telephone Company developed PIU factor(s) described in this section will only be used for minutes of use for which the Telephone Company does not have sufficient call detail to determine the jurisdiction until such time as the customer provides updated PIU factor(s) for these services.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.11 Jurisdictional Report and Certification Requirements
(Cont'd)(C) Jurisdictional Reports - Switched Access (Cont'd)(2) Use of PIU Factors (Cont'd)

- (b) Separate PIUs are required for flat rated Entrance Facilities, Direct Trunked Transport Facilities, and Switched Access Services Optional Features and Functions. The PIU factor(s) for use with such flat rated elements will reflect the combination of originating and terminating traffic of all services using such facilities.

If the customer fails to provide a PIU factor on its order for service, the Telephone Company will apply the PIU factor it developed pursuant to (2)(a), above, against the customer's flat rated Switched Access Services to apportion those charges between the jurisdictions.

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Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(F) Rounding of Charges

When a rate as set forth in this tariff is shown to more than two decimal places, the charges will be determined using the rate shown. The resulting amount will then be rounded to the nearest penny (i.e., rounded to two decimal places).

2.4.2 Minimum Periods

The minimum period for which services are provided and for which rates and charges are applicable is one month except for the following, or as otherwise specified:

- Switched Access usage rated services
- Directory Assistance usage rated services
- Switched Access High Capacity DS3 Entrance Facility and Direct Trunked Transport
- Switched Access Synchronous Optical Channel OC3 and OC12 Entrance Facility and Direct Trunked Transport
- Ethernet Switched Access Local Transport (N)
- Entrance Facility and Direct Trunked Transport (N)
- Special Access Part-time Video
- Special Access Program Audio
- Special Access High Capacity Service
- Special Access Synchronous Optical Channel Service
- Frame Relay Access Service
- Asynchronous Transfer Mode Cell Relay Access Service
- Ports
- Ethernet Transport Service
- Internet Protocol Gateway Access Service

The minimum period for which service is provided and for which rates and charges are applicable for a Specialized Service or Arrangement provided on an individual case basis as set forth in Section 12, following, is one month unless a different minimum period is established with the individual case filing.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

Credit allowances are computed as follows:

- (1) Special Access Service other than Program Audio and Video, flat rated Switched Access Service and Digital Subscriber Line Access Service rate elements

Except as provided for in Section 6.10.3(E), following, for Ethernet Switched Access Local Transport Real Time Class of Service/Quality of Service and Section 16.3.4(A)(3), following, for Ethernet Transport Service Real Time Class of Service/Quality of Service, for Special Access Services other than Program Audio and Video Services, for flat rated Switched Access Service rate elements (i.e., Entrance Facility, Direct Trunked Transport, Multiplexing, Add/Drop Multiplexing, Customer Node, and Customer Premises Port), and for Digital Subscriber Line Access Service, no credit shall be allowed for an interruption of less than 30 minutes. The customer shall be credited for an interruption of 30 minutes or more at the rate of 1/1440 of the monthly charges for the facility or service for each period of 30 minutes or Major Fraction Thereof that the interruption continues.

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The monthly charges used to determine the credit shall be as follows:

Certain material previously found on this page now appears on Original Page 2-35.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

(N)

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

Credit allowances are computed as follows:

- (1) Special Access Service other than Program Audio and Video, flat rated Switched Access Service and Digital Subscriber Line Access Service rate elements (Cont'd)

(N)

- (a) Two-point Services

(M)

For two-point services, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., two channel terminations, channel mileage and optional features and functions).

- (b) Multipoint Services

For multipoint services, the monthly charge shall be only the total of all the monthly rate element charges associated with that portion of the service that is inoperative (i.e., a channel termination per customer designated premises, channel mileage and optional features and functions).

(M)

Certain material currently found on this page previously appeared on 4th Revised Page 2-35.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(1) Special Access Service other than Program Audio and Video, flat rated Switched Access Service and Digital Subscriber Line Access Service rate elements (Cont'd)

(d) Flat rated Switched Access Service and Digital Subscriber Line Access Service rate elements

Except as provided for in Section 6.10.3(E), following, for Ethernet Switched Access Local Transport Real Time Class of Service/Quality of Service, for flat rated Switched Access Service rate elements, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., Entrance Facility, Direct Trunked Transport and Multiplexing). For flat rated Digital Subscriber Line Access Service, the monthly charge shall be the total of the monthly rate element charge for the Digital Subscriber Line Access Service.

(C)
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(e) Public Packet Data Network Services

Except as provided for in Section 16.3.4(A)(3), following, for Ethernet Transport Service Real Time Class of Service/Quality of Service, for Public Packet Data Network Services rate elements, the monthly charge shall be the total of all monthly rate element charges associated with the services.

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Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Meet Point Billing (Cont'd)

(2) Multiple Bill Option (Cont'd)

Each company will:

- prepare its own bill;
- determine its charge(s) for Local Transport, Directory Transport, and/or Channel Mileage as set forth in (3) following;
- determine and include all recurring and nonrecurring rates and charges of its access tariff;
- forward its bill to the customer.

The customer will remit payment directly to each Bill Rendering Company.

(3) Determination of Meet Point Billed Local Transport, Directory Transport and Channel Mileage Charges

Except as specified in (j) below for Ethernet Switched Access Local Transport, each Telephone Company's portion of the Local Transport, Directory Transport and Channel Mileage will be developed as follows:

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- (a) Determine the appropriate Local Transport or Channel Mileage by computing the number of airline miles between the Telephone Company premises (end office, access tandem or serving wire centers for

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

(N)

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Meet Point Billing (Cont'd)(3) Determination of Meet Point Billed Local Transport, Directory Transport and Channel Mileage Charges (Cont'd)

(j) For Ethernet Switched Access Local Transport (ESALT):

- When ESALT is jointly provided with a Telephone Company in an adjacent operating territory, each of the two Telephone Companies involved (i.e., the company with the ESALT SWC and the company with the SWC serving the customer designated premises) will bill one ESALT Direct Trunked Termination (ESALT DTT) monthly rate element, one ESALT Direct Trunked Facility (ESALT DTF)-E2 monthly rate element, one ESALT DTT nonrecurring charge and one Access Order Charge. The company with the SWC serving the customer designated premises will also bill the customer the applicable monthly and nonrecurring charges for the ESALT Entrance Facility (EF) rate element.
- When ESALT is jointly provided with a Telephone Company in a non-adjacent operating territory and the airline distance between the ESALT SWC and the SWC serving the customer designated premises is 50 airline miles or less as measured using the V&H coordinates

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Meet Point Billing (Cont'd)(3) Determination of Meet Point Billed Local Transport, Directory Transport and Channel Mileage Charges (Cont'd)

(j) For Ethernet Switched Access Local Transport (ESALT): (Cont'd)

method, each of the two Telephone Companies involved (i.e., the company with the ESALT SWC and the company with the SWC serving the customer designated premises) will bill one ESALT DTT monthly rate element, one ESALT DTF-E3 monthly rate element, one ESALT DTT nonrecurring charge and one Access Order Charge. The company with the SWC serving the customer designated premises will also bill the customer the applicable monthly and nonrecurring charges for the ESALT Entrance Facility (EF) rate element.

- When ESALT is jointly provided with a Telephone Company in a non-adjacent operating territory and the airline distance between the ESALT SWC and the SWC serving the customer designated premises is between 51 and 75 airline miles as measured using the V&H coordinates method, each of the two Telephone Companies involved (i.e., the company with the ESALT SWC and

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Meet Point Billing (Cont'd)(3) Determination of Meet Point Billed Local Transport, Directory Transport and Channel Mileage Charges (Cont'd)

(j) For Ethernet Switched Access Local Transport (ESALT): (Cont'd)

the company with the SWC serving the customer designated premises) will bill one ESALT DTT monthly rate element, one ESALT DTF-E4 monthly rate element, one ESALT DTT nonrecurring charge and One Access Order Charge. The company with the SWC serving the customer designated premises will also bill the customer the applicable monthly and nonrecurring charges for the ESALT Entrance Facility (EF) rate element.

The applicable monthly and nonrecurring charges will be based on the ESALT bandwidth capacity ordered by the customer and, where applicable, the Telephone Company's rate band assignment specified in the Local Transport (LT) column in Section 17.5.1, following.

When required, charges for Tandem Switched Transport mileage between the ESALT SWC and end office(s) will be determined based on the provisions in (a) through (c) above.

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Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements

5.2.1 Switched Access Service

Except as provided for in Sections 5.2.1(F) (T)
 and 5.2.1(G), following, when ordering Switched Access (C)
 service, the customer must specify the directionality of
 the service and whether the service is to be provided as
 (1) Direct Trunked Transport from the serving wire
 center to the end office or (2) Direct Trunked Transport
 from the serving wire center to a tandem which connects
 with Tandem Switched Transport from the tandem to the
 end office. When all or a portion of service is ordered
 as Direct Trunked Transport, the customer must specify
 the type and quantity of Direct Trunked Transport
 facility (e.g., Voice Grade, High Capacity DS1 or DS3,
 or Synchronous Optical Channel OC3 or OC12) and the hubs
 or ADM equipped wire centers involved.

Except as provided for in Sections 5.2.1(F), 5.2.1(G) (C)
 and 6.1.3(A)(1), following, the Customer must also
 specify the type of Entrance Facility to be used for
 Switched Access (e.g., Voice Grade, High Capacity or
 Synchronous Optical Channel). For High Capacity or
 Synchronous Optical Channel Entrance Facilities, the
 customer must specify the facility assignment and the
 channel assignment for each trunk.

With the exception of Ethernet Switched Access (C)
 Local Transport (ESALT) Direct Trunked Transport, (C)
 Direct Trunked Transport is available at all tandems
 and at all end offices except those end offices
 identified in NATIONAL EXCHANGE CARRIER ASSOCIATION,
 INC. TARIFF F.C.C. NO. 4. as not having the capability
 to provide Direct Trunked Transport. ESALT Direct (C)
 Trunked Transport is only available at those suitably
 equipped tandems and end offices identified by the
 Telephone Company in NATIONAL EXCHANGE CARRIER
 ASSOCIATION, INC. TARIFF F.C.C. NO. 4. Direct (C)
 Trunked Transport is not available: (1) from end
 offices that provide equal access through a
 Centralized Equal Access arrangement, or (2) from end
 offices that lack recording or measurement capability.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(C) Feature Group C, Feature Group D, Interim NXX Translation, Operator Transfer Service and SS7 Signaling

The ordering requirements for Feature Group D Switched Access Service used in conjunction with Internet Protocol Gateway Access Service are specified in Section 5.2.1(F), following. The ordering requirements for Feature Group D Switched Access Service used in conjunction with ESALT are specified in Section 5.2.1(G), following.

(C)
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 (C)

When placing an order for Feature Group C and D Switched Access Service, the customer shall provide:

- The number of BHMC from the customer designated premises to the end office or Operator Transfer Service location by Feature Group and by type of BHMC, or
- The number of trunks desired between customer designated premises and an entry switch or Operator Transfer Service location.
- The number of BHMC or trunks required for or to be converted to an SS7 Signaling capability.
- Optional Features
- Interim NXX Translation options.
- Operator Transfer Service option
- A projected Percentage of Interstate Use (PIU) as set forth in Section 2.3.11, preceding.
- For Feature Group D switched access service to a Wireless Switching Center (WSC) directly interconnected to a Telephone Company access tandem office, the customer shall provide information to the Telephone Company indicating the NXX code(s) to be accessed.

When BHMC information is provided it is used to determine the number of transmission paths as set forth in Section 6.2.5, following.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

(N)

5. Access Ordering (Cont'd)5.2 Ordering Requirements (Cont'd)5.2.1 Switched Access Service (Cont'd)(G) Ethernet Switched Access Local Transport

When placing an order for Ethernet Switched Access Local Transport (ESALT) and required Feature Group D Switched Access Service as described in Section 6.1, following, the customer must specify:

- The customer designated premises;
- The number and bandwidth capacity for each ESALT Entrance Facility and, where required, the number, type and bandwidth capacity for each ESALT Direct Trunked Facility, ESALT Direct Trunked Termination and ESALT Class of Service/Quality of Service;
- The type of signaling interface and bearer channel format requested that are compatible with the Technical Reference transmission standards listed in Section 6.1.1(A), following;
- The number of BMHC between the ESALT SWC and each end office to which the customer wants to terminate interexchange voice traffic originated on its IP based network and/or receive interexchange voice traffic originated on the Telephone Company's network; and
- A projected Percentage of Interstate Use (PIU) as set forth in Section 2.3.11, preceding.

BHMC information is used to determine the number of transmission paths as set forth in Section 6.2.5, following.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

5. Access Ordering (Cont'd)5.2 Ordering Requirements (Cont'd)5.2.3 WATS or WATS-Type Services

Special Access Service may be ordered for connection with FGA, FGB, FGC or FGD Switched Access Service at Telephone Company designated WATS Serving Offices (WSOs) for the provision of WATS or WATS-type Services and may be ordered separately by a customer other than the customer which orders the FGA, FGB, FGC or FGD Switched Access Service. For the Special Access Service the customer shall specify:

- the customer designated premises at which the Special Access service terminates
- the type of line (i.e., two-wire or four-wire)
- the type of calling (i.e., originating, terminating or two-way)
- type of Supervisory Signaling.

When the optional screening, switching and/or recording functions are not provided at the customer serving wire center, Channel Mileage, as set forth in 7.2.1 following, must be ordered between that wire center and the nearest WSO where the screening, switching and/or recording functions can be provided.

5.2.4 Mixed Use Facilities

(T)

Mixed use is the provision of both Switched and Special Access Services over the same High Capacity or Synchronous Optical Channel facilities. Mixed use facilities to a hub or ADM equipped wire center will be ordered and provided as Special Access Service. Where mixed use is employed, individual services utilizing these facilities must be ordered either as Switched Access Service or Special Access Service as further elaborated and set forth in Sections 6.4.7 and 7.2.7, following. When placing the order for the individual service(s), the customer must specify a channel assignment for each service ordered.

(T)

(T)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

5. Access Ordering (Cont'd)5.2 Ordering Requirements (Cont'd)5.2.4 Mixed Use Facilities (Cont'd)

Mixed use is also the provision of both Ethernet Switched Access Local Transport (ESALT) and Ethernet Transport Service (ETS) over the same Ethernet Transport Service facilities. Mixed use facilities to an ETS SWC will be ordered and provided as Ethernet Transport Service. Where mixed use is employed, individual services utilizing these facilities must be ordered either as ESALT or ETS as set forth in Sections 6.4.7 and 16.3.4(D), following.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

5. Access Ordering (Cont'd)5.5 Minimum Periods and Cancellations5.5.1 Minimum Periods

The minimum period for part-time Video and Program Audio Special Access Services is one day as set forth in Section 7.2.4, following, even though the service will be provided only for the duration of the event specified on the order (e.g., one-half hour, two hours, five hours, etc.).

The minimum period for Switched Access High Capacity DS3 and Synchronous Optical Channel Entrance Facilities and Direct Trunked Transport is as set forth in Section 6.1.3(A), following. The minimum period for Ethernet Switched Access Local Transport is as set forth in Section 6.1.3(A)(2), following. The minimum period for Special Access High Capacity Service and Synchronous Optical Channel Service is as set forth in Sections 7.2.4 and 7.2.8, following. The minimum period for Frame Relay Access Service is as set forth in Sections 16.1.2(C) and 16.1.3, following. The minimum period for Asynchronous Transfer Mode Cell Relay Access Service is as set forth in Section 16.2.4(C), following. The minimum period for Ethernet Transport Service is as set forth in Section 16.3.4(C), following. The minimum period for Internet Protocol Gateway Access Service is as set forth in Section 16.4.4(C), following.

(C)
|
(C)

The minimum period for which Directory Assistance Service and the Directory Access Service is provided and for which charges apply is six months. A minimum period of six months applies for each additional period of service ordered or extended.

Switched Access usage rated services (i.e., End Office, and Tandem Switched Transport) have no minimum period.

The minimum period for which all other Access Service is provided and for which charges are applicable is one month.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)

(A) Description (Cont'd)

Where suitable facilities exist, the Ethernet Switched Access Local Transport (ESALT) option enables the customer to handoff IP formatted traffic to the Telephone Company at the designated end office, host office or tandem office location where the Telephone Company will convert the customer's traffic to TDM format for termination to local exchange service end users over the Telephone Company's local network. This option also enables the Telephone Company to convert traffic originated from its local exchange service end users from TDM format to IP format at the designated end office, host office or tandem office and handoff that IP formatted traffic to the customer designated premises.

(N)
 |
 (N)

There are three specific transmission specifications (i.e., Types A, B and C) that have been identified for the provision of Feature Groups. Except as specified below for ESALT, the technical specifications for the Entrance Facility and Direct Trunked Transport are the same as those set forth in Section 7, following for Voice Grade, High Capacity and Synchronous Optical Channel Services.

(C)

Certain material previously found on this page now appears on Original Page 6-2.3.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
 80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)(A) Description (Cont'd)

The technical specifications for the ESALT Entrance Facility and Direct Trunked Transport are as set forth in the Technical References listed below. The transmission quality of ESALT is not guaranteed and is offered to customers at a best effort level.

- IEEE Standard 802.3 - 2008;
- IETF RFC 3261 - June 2002;
- IETF RFC 3262 - June 2002;
- IETF RFC 3263 - June 2002;
- IETF RFC 3264 - June 2002;
- IETF RFC 3265 - June 2002;
- IETF RFC 3550 - July 2003;
- ITU-T G.711 - November 1988;
- ITU-T G.723.1 - May 2006;
- ITU-T G.729 - January 2007;
- ITU-T G.7041/Y.1303 - August 2005;
- ITU-T G.8040/Y.1340 - September 2005;
- ITU-T H.225.0 - May 2006;
- ITU-T H.245 - June 2008; and/or
- ITU-T H.323 - June 2006.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)

(A) Description (Cont'd)

(N)

The specifications provided are dependent on the Interface Group and the routing of the service, i.e., whether the service is routed directly to the end office or via an access tandem. The parameters for the transmission specifications are set forth in Section 15.1.2, following.

(M)

Feature Groups are arranged for either originating, terminating or two-way calling, based on the customer end office switching capacity ordered. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the customer designated premises or when used in conjunction with IPG as described in Section 6.8.1(M), following, from Telephone Exchange Service locations to the IPG SWC. Terminating calling permits the delivery of calls from the customer designated premises to Telephone Exchange Service locations or when used in conjunction with IPG as described in Section 6.8.1(M), following, from the IPG SWC to Telephone Exchange Service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. The Telephone Company will determine the type of calling to be provided unless the customer requests that a different type of directional calling is to be provided. In such cases, the Telephone Company will work cooperatively with the customer to determine the directionality.

(M)

Certain material currently found on this page previously appeared on 1st Revised Page 6-2.1 and 5th Revised Page 6-3.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)(A) Description (Cont'd)

There are various optional features associated with Local Transport, Common Switching and Transport Termination available with the Feature Groups. In addition, the Interim NXX Translation and Operator Transfer Service optional features are available with Feature Group C and Feature Group D.

Operator Transfer Services will be provided over FGC or FGD switched access service trunks from the operator service location to the customer's premises. Where required by technical limitations, a separate FGC or FGD trunk group will be established for Operator Transfer Service. The operator service location will provide trunk answer and disconnect supervisory signaling to the customer.

Detailed descriptions of each of the available Feature Groups are set forth in Sections 6.5 through 6.9, following. Each Feature Group is described in terms of its specific physical characteristics and calling capabilities, the optional features available for use with it and the standard testing capabilities.

The Common Switching and Transport Termination optional features, which are described in Section 6.10, following, unless specifically stated otherwise, are available at all Telephone Company end office switches.

Certain material previously found on this page now appears on Original Page 6-2.3.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)(B) Manner of Provision

Switched Access is furnished in either quantities of lines or trunks, or in busy hour minutes of capacity (BHMCs). FGA Access and FGB Access are furnished on a per-line or per-trunk basis respectively. FGC Access and FGD Access are furnished on a BHMC and on a per trunk basis as set forth in Section 5.2, preceding. ESALT may only be used in conjunction with FGD Access. (C)

BHMCs are differentiated by type and directionality of traffic carried over a Switched Access Service arrangement. Differentiation of traffic among BHMC types is necessary for the Telephone Company to properly design Switched Access Service to meet the traffic carrying capacity requirement of the customer.

There are three major BHMC categories identified as: Originating, Terminating and Directory Assistance. Originating BHMCs represent access capacity within a LATA for carrying traffic from the end user to the customer or when used in conjunction with Internet Protocol Gateway Access Service, Originating BHMCs represent capacity within the operating territory of the Telephone Company for carrying traffic between the end user and an IPG SWC; Terminating BHMCs represent access capacity within a LATA for carrying traffic from the customer to the end user or when used in conjunction with Internet Protocol Gateway Access Service, Terminating BHMCs represent capacity within the operating territory of the Telephone Company for carrying traffic between the end user and an IPG SWC; and, Directory Assistance BHMCs represent access capacity within a LATA for carrying Directory Assistance traffic from the customer to a Directory Assistance location. When ordering capacity for FGC Access or FGD Access in BHMCs, the customer must at a minimum specify such access capacity in terms of Originating BHMCs and/or Terminating BHMCs.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport

The Local Transport rate category establishes the charges related to the transmission and tandem switching facilities between the customer designated premises and the end office switch(es), which may be a Remote Switching Module(s) or WATS Serving Office, where the customer's traffic is switched to originate or terminate the customer's communications. When used in conjunction with IPG as specified in Section 16.4, following, the Local Transport rate category establishes the charges related to the transmission and tandem switching facilities between the IPG SWC and the end office switch(es) to terminate the customer's communications. Mileage measurement rules are set forth in Section 6.4.6, following and in this section.

Local Transport is a two-way voice frequency transmission path composed of facilities determined by the Telephone Company. The two-way voice frequency transmission path permits the transport of calls in the originating direction (from the end user end office switch to the customer designated premises) and in the terminating direction (from the customer designated premises to the end office switch), but not simultaneously. The voice frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Certain material previously found on this page now appears on 7th Revised Page 6.7.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

The customer must specify the choice of facilities (i.e., Voice Grade 2 or 4 wire, High Capacity DS1 or DS3, Synchronous Optical Channel OC3 or OC12, or ESALT 2 Mbps, 10 Mbps or 50 Mbps) to be used in the provision of the Direct Trunked Transport or Entrance Facility. High Capacity DS3, Synchronous Optical Channel and ESALT facilities are only available at wire centers identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, WIRE CENTER INFORMATION.

(M)
 (T)
 (C)
 (C)
 (C)
 (C)
 (M)

Except when ordering ESALT or Local Transport associated with IPG, the customer must specify when ordering: (1) whether the service is to be directly routed to an end office switch or through an access tandem switch, (2) the type of Direct Trunked Transport and whether it will overflow to Tandem Switched Transport when service is directly routed to an end office, (3) the type of Entrance Facility, where applicable, (4) the directionality of the service, and (5) when multiplexing is required, the hub(s) at which the multiplexing will be provided.

(C)

Certain material currently found on this page previously appeared on 7th Revised Page 6-7.

Certain material previously found on this page now appears on Original Page 6-7.1.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

When ordering ESALT, the customer must specify:
(1) the ESALT-equipped SWC and (2) the end office switch(es) to which the customer wants to terminate interexchange voice traffic originated on its IP based network and/or receive interexchange voice traffic originated on the Telephone Company's network.

(N)

When ordering Local Transport associated with IPG, the customer must specify:
(1) the IPG SWC and (2) the end office switch(es) to which the IPG customer wants to terminate interexchange voice traffic originated on its IP based network and/or receive interexchange voice traffic originated on the Telephone Company's network.

(M)
(C)

When the customer has both Tandem Switched Transport and Direct Trunked Transport at the same end office, the customer will be provided Alternate Traffic Routing as set forth in Section 6.4.6, following.

(M)

Certain material currently found on this page previously appeared on 6th Revised Page 6-7.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

Except as specified above for High Capacity DS3, Synchronous Optical Channel and Ethernet Switched Access Local Transport, Direct Trunked Transport is available at all tandems and at all end offices except those end offices identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, as not having the capability to provide Direct Trunked Transport. Direct Trunked Transport is not available: (1) from end offices that provide equal access through a Centralized Equal Access arrangement, or (2) from end offices that lack recording or measurement capability.

(C)
 |
 (C)
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 (M)
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 (M)

Normally, Direct Trunked Transport of originating 800 series calls from an end office is available only from Service Switching Point (SSP) equipped end offices. However, certain SSP equipped end offices cannot accommodate the direct trunking of the 800 series (other than the 800 service access code) service access code. These end offices are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., TARIFF F.C.C. NO. 4. Additionally, certain non-SSP equipped end offices can accommodate direct trunking of originating 800 series calls. These end offices are also identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., TARIFF F.C.C. NO. 4.

Certain material currently found on this page previously appeared on 6th Revised Page 6-7.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

Local Transport is provided at the rates and charges set forth in Section 17.2, following. (T)
 The application of these rates with respect to individual Feature Groups is as set forth in Section 6.4.1(C), following. When (T)
 more than one Telephone Company is involved in providing the Switched Access Service, the Local Transport rates are applied as set forth in Section 2.4.7, preceding. (T)

The Local Transport rate category includes the following elements as described below: (T)
 (C)

- (1) Entrance Facility, (2) Direct Trunked Transport, (3) Tandem Switched Transport, (T)
- (4) Multiplexing, (5) Add/Drop Multiplexing, (C)
- (6) Customer Node, (7) Interface Groups, |
- (8) Nonchargeable Optional Features and |
- (9) Chargeable Optional Features. (C)

(1) Entrance Facility

The Entrance Facility recovers a portion of the costs associated with a communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Entrance Facility is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the customer designated premises and the type of signaling capability, if any.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Entrance Facility (Cont'd)

Eight types of Entrance Facility are available: (C)

- Voice Grade 2 or 4 wire - an analog channel with an approximate bandwidth of 300 to 3000 Hz;
- High Capacity DS1 - an isochronous serial digital channel with a rate of 1.544 Mbps;
- High Capacity DS3 - an isochronous serial digital channel with a rate of 44.736 Mbps;
- Synchronous Optical Channel OC3 - a synchronous optical channel with a rate of 155.52 Mbps;
- Synchronous Optical Channel OC12 - a synchronous optical channel with a rate of 622.08 Mbps; (T)
- ESALT 2 Mbps - an Ethernet packet based channel with a rate of 2 Mbps; (N)
- ESALT 10 Mbps - an Ethernet packet based channel with a rate of 10 Mbps;
- ESALT 50 Mbps - an Ethernet packet based channel with a rate of 50 Mbps. (N)

Certain material previously found on this page now appears on 2nd Revised Page 6-8.1.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Entrance Facility (Cont'd)

The minimum period for which a High Capacity DS3, Synchronous Optical Channel, or Ethernet Switched Access Local Transport Entrance Facility is provided is twelve months.	(M)
	(T)
	(C)
	(C)
	(M)

One charge applies for each Entrance Facility that is terminated at a customer designated premises. This charge specified in Section 17.2.2, following, will apply even if the customer designated premises and the serving wire center are collocated in a Telephone Company building, except as provided for below.	(M)
	(M)

The Entrance Facility charge specified in Section 17.2.2, following, will not apply when: 1) the customer designated premises and serving wire center are physically (including caged, cageless, shared and adjacent arrangements) or virtually collocated as those terms are used in 47 C.F.R. § 51.323 and (2) the customer obtains such collocation for the purpose of interconnection with the Telephone Company's network for the transmission and routing of telephone exchange service, exchange access or both, and for the purpose of providing local exchange or exchange access services to its customers.

Certain material currently found on this page previously appeared on 8th Revised Page 6-8.1.

Certain material previously found on this page now appears on Original Page 6-8.1.2.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Entrance Facility (Cont'd)

(N)

The Telephone Company specific rate band assignment for the Entrance Facility rate element is specified in the Local Transport (LT) column in Section 17.5.1, following.

(M)

A customer's Local Transport may be connected to the Entrance Facility of another customer, providing the other customer submits a Letter of Authorization for this connection and assumes full responsibility for the cost of the Entrance Facility.

(M)

Certain material currently found on this page previously appeared on 1st Revised Page 6-8.1.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(2) Direct Trunked Transport

The Direct Trunked Transport rate elements recover a portion of the cost associated with a communications path or circuits dedicated to the use of a single customer between:

- the serving wire center and an end office,
- the serving wire center and a tandem,
- the serving wire center and a hub,
- a hub and an end office,
- the serving wire center and an ADM equipped wire center where add/drop multiplexing functions are performed,
- an ADM equipped wire center and an end office.

Except as specified above for High Capacity DS3, Synchronous Optical Channel and Ethernet Switched Access Local Transport, Direct Trunked Transport is available at all tandems and to all end offices except those end offices identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, WIRE CENTER INFORMATION as not having the capability to provide Direct Trunked Transport.

(C)
 |
 (C)

Direct Trunked Transport is not available:
 (1) from end offices that provide equal access through a Centralized Equal Access arrangement or (2) from end offices that lack recording or measurement capability.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(2) Direct Trunked Transport (Cont'd)

Normally, Direct Trunked Transport of originating 800 series calls from an end office is available only from Service Switching Point (SSP) equipped end offices. However, certain SSP equipped end offices cannot accommodate the direct trunking of the 800 series (other than the 800 service access code) service access code. These end offices are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., TARIFF F.C.C. NO. 4. Additionally, certain non-SSP equipped end offices can accommodate direct trunking of originating 800 series calls. These end offices are also identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., TARIFF F.C.C. NO. 4.

Certain material previously found on this page now appears on 1st Revised Page 6-8.3.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(2) Direct Trunked Transport (Cont'd)

Eight types of Direct Trunked Transport are available:

- Voice Grade 2 or 4 wire - an analog channel with an approximate bandwidth of 300 to 3000 Hz;
- High Capacity DS1 - an isochronous serial digital channel with a rate of 1.544 Mbps;
- High Capacity DS3 - an isochronous serial digital channel with a rate of 44.736 Mbps;
- Synchronous Optical Channel OC3 - a synchronous optical channel with a rate of 155.52 Mbps;
- Synchronous Optical Channel OC12 - a synchronous optical channel with a rate of 622.08 Mbps;
- ESALT 2 Mbps - an Ethernet packet based channel with a rate of 2 Mbps;
- ESALT 10 Mbps - an Ethernet packet based channel with a rate of 10 Mbps;
- ESALT 50 Mbps - an Ethernet packet based channel with a rate of 50 Mbps.

(C)(M)

(T)(M)

(N)

(N)

Certain material currently found on this page previously appeared on 5th Revised Page 6-8.3.

Certain material previously found on this page now appears on Original Page 6-8.3.2.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(2) Direct Trunked Transport (Cont'd)

(N)

High Capacity DS3 Direct Trunked Transport can not be terminated at end offices that are not identified as hub offices that provide DS3 to DS1 multiplexing.

(M)

Synchronous Optical Channel Service OC3 or OC12 Direct Trunked Transport can not be terminated at end offices that are not identified as ADM equipped wire centers that provide OC3 to DS1 or OC12 to OC3 Add/Drop Multiplexing.

(M)

ESALT 2 Mbps, 10 Mbps or 50 Mbps Direct Trunked Transport can not be terminated at end offices, host offices or tandem offices that are not identified as ESALT-equipped wire centers in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, WIRE CENTER INFORMATION.

(N)

(N)

Additionally, DS1 Direct Trunked Transport can not be terminated at end offices that are not identified as hub offices that provide DS1 to Voice Grade multiplexing or are not electronic end offices.

Offices that provide multiplexing and add/drop multiplexing functions are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, WIRE CENTER INFORMATION.

Certain material currently found on this page previously appeared on Original Page 6-8.3.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(2) Direct Trunked Transport (Cont'd)

Except as specified below for ESALT, Direct Trunked Transport rates consist of a Direct Trunked Facility rate specified in Section 17.2.2, following, which is applied on a per mile basis, and a Direct Trunked Termination rate, which is applied at each end of each measured segment of the Direct Trunked Facility (e.g., at the end office, tandem, hub, ADM equipped wire center, and serving wire center).

(C)

Direct Trunked Transport rates for ESALT consist of: 1) an ESALT Direct Trunked Facility (DTF) rate specified in Section 17.2, following, which is applied on a per facility basis based on the capacity ordered by the customer (i.e., 2 Mbps, 10 Mbps or 50 Mbps) and on whether the ESALT DTF is provided entirely within the Telephone Company's operating territory or jointly provided with another telephone company to a serving wire center located outside of the Telephone Company's operating territory and 2) an ESALT Direct Trunked Termination (DTT) rate specified in Section 17.2, following, which is applied at each end of the ESALT DTF (i.e., at the serving wire center serving the customer's designated premises and

(N)

(N)

Certain material previously found on this page now appears on Original Page 6-8.4.2 and Original Page 6-8.4.3.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(2) Direct Trunked Transport (Cont'd)

either the end office, host office, or tandem office) at the same capacity as the capacity of the associated ESALT Direct Trunked Facility segment.

The type of ESALT Direct Trunked Facility required will depend upon the configuration of the customer's service as follows:

- ESALT DTF-E1 is required when the ESALT SWC and SWC serving the customer designated premises are located within the Telephone Company's operating territory.
- ESALT DTF-E2 is required when the customer designated premises is located outside of the Telephone Company's operating territory in an adjacent operating territory and the ESALT is jointly provided with another telephone company.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(2) Direct Trunked Transport (Cont'd)

- ESALT DTF-E3 is required when the customer designated premises is located outside of the Telephone Company's operating territory in a non-adjacent operating territory where the airline distance between the ESALT SWC and SWC serving the customer designated premises is 50 airline miles or less and the ESALT is jointly provided with another telephone company.
- ESALT DTF-E4 is required when the customer designated premises is located outside of the Telephone Company's operating territory in a non-adjacent operating territory where the airline distance between the ESALT SWC and SWC serving the customer designated premises is between 51 and 75 airline miles and the ESALT is jointly provided with another telephone company. When the customer designated premises is located in a non-adjacent operating territory, ESALT is not available when the airline distance between the SWC serving the customer designated premises and the ESALT SWC is greater than 75 airline miles.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(2) Direct Trunked Transport (Cont'd)

(N)

When the Direct Trunked Facility mileage is zero, neither the Direct Trunked Facility rate nor the Direct Trunked Termination rate will apply.

(M)

The Direct Trunked Facility rate recovers a portion of the costs of transmission facilities, including intermediate transmission network equipment, between the end points of the interoffice facilities.

(C)

(M)

(C)

The Direct Trunked Termination rate specified in Section 17.2.2, following, recovers a portion of the costs of the network equipment that is necessary for the termination of each end of the Direct Trunked Facility.

(M)

(C)

The Telephone Company specific rate band assignment for the Direct Trunked Transport rate elements is specified in the Local Transport (LT) column in Section 17.5.1, following.

(T)

The minimum period for which High Capacity DS3, Synchronous Optical Channel, or or Ethernet Switched Access Local Transport Direct Trunked Transport is provided is twelve months.

(T)

(C)

(C)

(M)

Certain material currently found on this page previously appeared on 9th Revised Page 6-8.4.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(3) Tandem Switched Transport (Cont'd)

(b) The Tandem Switched Facility rate recovers a portion of the costs of transmission facilities, including intermediate transmission circuit equipment, between the end points of interoffice circuits. The Tandem Switched Facility rate specified in 17.2.2 following is applied on a per access minute per mile basis for all originating and terminating minutes of use routed over the facility.

(c) The Tandem Switched Termination rate recovers a portion of the costs of circuit equipment necessary for the termination of each end of each measured segment of the Tandem Switched Facility. The Tandem Switched Termination rate specified in 17.2.2 following is applied on a per access minute basis (for all originating and terminating minutes of use routed over the facility) at each end of each measured segment of Tandem Switched Facility (e.g., at the end office, Feature Group A dial tone office, host office and the access tandem). When the Tandem Switched Facility mileage is zero, neither the Tandem Switched Facility rate nor the Tandem Switched Termination rate will apply.

The Telephone Company specific rate band assignment for the Tandem Switched Transport rate elements is specified in the Tandem Switched Transport (TST) column in Section 17.5.1, following.

(C)

(C)

(D)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
 80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(4) Multiplexing

(T)

Multiplexing provides an arrangement for converting a single, higher capacity or bandwidth circuit to several lower capacity or bandwidth circuits.

When a derived channel is itself multiplexed to derive additional channels with a lesser capacity, this is referred to as cascade multiplexing. When cascade multiplexing occurs, a charge for the additional multiplexing function applies. When cascade multiplexing is performed at different hubbing locations, Direct Trunked Transport charges also apply between the hubs.

Multiplexing is only available at wire centers identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF NO. 4, WIRE CENTER INFORMATION.

The following multiplexing arrangements are offered for use with Switched Access Service.

- (a) DS3 to DS1 Multiplexing charges specified in Section 17.2.2, following, apply when a High Capacity DS3 Entrance Facility or High Capacity DS3 Direct Trunked Transport is connected with High Capacity DS1 Direct Trunked Transport. The Telephone Company specific rate band assignment for the DS3 to DS1 Multiplexing rate element is specified in the Local Transport (LT) column in Section 17.5.1, following. The DS3 to DS1 multiplexer will convert a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

 Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(4) Multiplexing (Cont'd)

(T)

- (b) DS1 to Voice Grade Multiplexing charges specified in Section 17.2.2, following, apply when a High Capacity DS1 Entrance Facility or High Capacity DS1 Direct Trunked Transport is connected with Voice Grade Direct Trunked Transport. However, a DS1 to Voice Grade Multiplexing Charge does not apply when a High Capacity DS1 Entrance Facility or High Capacity DS1 Direct Trunked Transport is terminated at an electronic end office and only Switched Access Service is provided over the DS1 facility (i.e., Voice Grade Special Access channels are not derived). The Telephone Company specific rate band assignment for the DS1 to Voice Grade Multiplexing rate element is specified in the Local Transport (LT) column in Section 17.5.1, following. The DS1 to Voice Grade multiplexer will convert a 1.544 Mbps channel to 24 Voice Grade channels.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(5) Add/Drop Multiplexing

(T)

Add/Drop Multiplexing provides a type of multiplexing function in connection with Synchronous Optical Channel Service that allows lower level signals to be added or dropped from a high speed optical carrier channel within a Telephone Company wire center.

The Add/Drop Multiplexing Central Office Port charge specified in Section 17.2.2, following, applies to the interface provided at a Telephone Company wire center for the purpose of adding or dropping lower capacity services from Synchronous Optical Channel Entrance Facilities or Direct Trunked Transport. Central Office Ports are available at the following speeds:

<u>Central Office Port</u>	<u>Speed</u>
OC3	155.52 Mbps
DS3	44.736 Mbps
DS1	1.544 Mbps

The Telephone Company specific rate band assignment for the Add/Drop Multiplexing rate element is specified in the Local Transport (LT) column in Section 17.5.1, following.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(5) Add/Drop Multiplexing (Cont'd)

(T)

OC12 service may only be multiplexed to OC3 channels.

When an OC3 channel is derived from an OC12 service and is further multiplexed to obtain DS3 service, a DS3 port charge will apply in addition to the OC3 port charge.

When a DS3 channel is derived from an OC3 service and is further multiplexed to obtain DS1 service, a DS3 to DS1 Multiplexing charge will apply in addition to the DS3 port charge.

When a DS1 channel is directly derived from an OC3 service, a DS1 port charge will apply.

When a DS1 channel is further multiplexed to a lower level signal, a DS1 to Voice Grade Multiplexing charge will also apply.

Add/Drop Multiplexing is only available at wire centers identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 WIRE CENTER INFORMATION.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(6) Customer Node

(T)

A Customer Node charge specified in Section 17.2.2, following, applies when the Telephone Company provides terminal equipment at the customer designated premises for termination of a Synchronous Optical Channel Entrance Facility. Such equipment may be used to convert the signal from an optical to electrical format. The Customer Node charge is determined by the level of optical service (i.e., OC3 or OC12) delivered to the premises. Each Customer Node must be configured with one or more Customer Premises Ports.

Customer Premises Port charges specified in Section 17.2.2, following, apply in conjunction with the Customer Node charge. Each Customer Premises Port provides the interface to derive a lower capacity service at the customer premises. The type and quantity of ports is determined by the customer and is based on the type of Customer Node selected and the number of DS1, DS3, STS-1 and/or OC3 channels ordered. Customer Premises Ports are available at the following speeds:

<u>Customer Premises Port</u>	<u>Speed</u>
OC3	155.52 Mbps
STS-1	51.84 Mbps
DS3	44.736 Mbps
DS1	1.544 Mbps

The Telephone Company specific rate band assignment for the Customer Node and Customer Premises Port rate elements is specified in the Local Transport (LT) column in Section 17.5.1, following.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(7) Interface Groups

(T)

Ten Interface Groups are provided for terminating the Entrance Facility at the customer's designated premises. Technical specifications concerning the available interface groups are set forth in Section 15.1, following.

(8) Nonchargeable Optional Features

(T)

Where transmission facilities permit, the individual transmission path between the customer's designated premises and the first point of switching, may at the option of the customer, be provided with the following optional features as set forth and described in Section 15.1.1(E), following.

- Supervisory Signaling
- Customer Specified Entry Switch Receive Level
- Customer Specification of Local Transport Termination
- 64 Clear Channel Capability

In addition to the above, Shared SONET Interoffice Ring Transport (SSRIT) is available as a nonchargeable optional feature with High Capacity DS3 or Synchronous Optical Channel Local Transport service from wire centers identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, WIRE CENTER INFORMATION. The SSRIT feature is set forth and described in Sections 7.10.3(E) and 7.11.3(C), following.

When a customer subscribes to Common Channel Signaling (SS7) Network Connection Service (CCSNC Service), the following optional features are made available and are described in Section 6.10.1, following.

- Signaling System 7 (SS7) Signaling
- Calling Party Number
- Carrier Selection Parameter
- Charge Number Parameter
- Carrier Identification Parameter

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(9) Chargeable Optional Features

(T)

Common Channel Signaling, Signaling System 7 (CCS/SS7) Network Connection (CCSNC) Service provides a signaling path between a customer's designated Signaling Point of Interface (SPOI) and a Telephone Company's Signaling Transfer Point (STP). CCSNC is provided as set forth in Section 6.10.3, following.

800 Data Base Access Service is provided to all customers in conjunction with FGC and FGD switched access service. A Basic or Vertical Feature Query charge, as set forth in Section 17.2.2 (B), following, is assessed for each completed query returned from the 800 data base whether or not the actual call is delivered to the customer. The query is considered completed when the appropriate call routing information is returned to the Service Switching Point (SSP) that launched the query. The Basic Query provides the identification of the customer to whom the call will be delivered and includes area of service routing which allows routing of 800 series calls by telephone companies to different interexchange carriers based on the Local Access Transport Area (LATA) in which the call originates. The Vertical Feature Query provides this same customer identification function in addition to vertical features which may include:
(1) call validation (ensuring that calls originate from subscribed service areas);

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(9) Chargeable Optional Features (Cont'd)

(N)

- (2) POTS translation of 800 series numbers (which is generally necessary for the routing of 800 series calls);
- (3) alternate POTS translation (which allows subscribers to vary the routing of 800 series calls based on factors such as time of day, place of origination of the call, etc.); and
- (4) multiple carrier routing (which allows subscribers to route to different carriers based on factors similar to those in (3)).

(M)

(M)

When ordered for use with ESALT Direct Trunked Facility provided entirely within the Telephone Company's operating territory, the ESALT Real Time Class of Service/Quality of Service (RT CoS/QoS) option provides service performance commitments on transmissions using the Telephone Company's Ethernet local transport network. ESALT RT CoS/QoS is provided as set forth in Section 6.10.3(E), following.

(N)

When ordered for use with ESALT Entrance Facility, the ESALT Entrance Facility Protection (ESALT EFP) option provides backup protection using the Telephone Company's Ethernet local transport network. ESALT EFP is provided as set forth in Section 6.10.3(F), following.

(N)

Certain material currently found on this page previously appeared on 7th Revised Page 6-13.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(B) End Office

The End Office rate category establishes the charges related to the local end office switching and end user termination functions necessary to complete the transmission of Switched Access communications to and from the end users served by the local end office. The End Office rate category includes the Local Switching and Information Surcharge rate elements. Directory Assistance Service is set forth in Section 9, following.

(1) Local Switching

The Local Switching rate element establishes the charges related to the use of end office switching equipment, the terminations in the end office of end user lines, the terminations of calls at Telephone Company Intercept Operators or recordings, the STP costs, and the SS7 signaling function between the end office and the Signaling Transfer Point.

Certain material previously found on this page now appears on Original Page 6-12.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

(D)

(D)

6.1.4 Special Facilities Routing

Any customer may request that the facilities used to provide Switched Access Service be specially routed. The regulations for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in Section 11, following.

(T)

6.1.5 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the makeup of the facilities and services provided from the customer's premises to the first point of switching. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

6.2 Undertaking of the Telephone Company

In addition to the obligations of the Telephone Company set forth in Section 2, preceding, the Telephone Company has certain other obligations concerning only the provision of Switched Access Service. These obligations are as follows:

(T)

6.2.1 Network Management

The Telephone Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. Generally, service levels are considered acceptable only when both end users and

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Obligations of the Customer (Cont'd)6.3.5 Call Signaling

Depending on the signaling system used by the customer in its network, the customer's facilities shall transmit the following call signaling information to the Telephone Company on traffic the customer's end users originate which is handed off for termination on the Telephone Company's network.

(A) Signaling System 7 (SS7) Signaling

When the customer uses SS7 signaling, it will transmit the Calling Party Number (CPN) or, if different from the CPN, the Charge Number (CN) information in the SS7 signaling stream.

(B) Multi-Frequency (MF) Signaling

When the customer uses MF signaling, it will transmit the number of the calling party or, if different from the number of the calling party, the Charge Number (CN) information in the MF Automatic Number Identification (ANI) field.

(C) Internet Protocol (IP) Signaling

When the customer uses IP signaling, it will transmit the telephone number of the calling party or, if different from the telephone number, the billing number of the calling party.

When the customer uses IP signaling in conjunction with ESALT, it will transmit call signaling data that must either: 1) conform to an active 10-digit North American Numbering Plan or directory number which is associated with the geographic location of the originating calling party (i.e., Calling Party Number and/or Automatic Number Identification) or 2) represent IP equivalent call signaling that is mutually agreed upon by the customer and Telephone Company at the time the customer places its order for ESALT.

(N)

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges
(Cont'd)

(B) Nonrecurring Charges (Cont'd)

(1) Installation of Service (Cont'd)

For Entrance Facilities, a Local Transport nonrecurring installation charge, as set forth in Section 17.2.1(A), following, will be applied at the serving wire center for each Entrance Facility installed. (T)

Except as specified below for ESALT, when Direct Trunked Transport is ordered to the end office, a Local Transport nonrecurring trunk activation charge, as set forth in Section 17.2.1 (E), following, will be applied at the end office on a per order basis for each group of 24 Direct Trunked Transport trunks or fraction thereof that is activated at the end office. (C)
(C)
(T)

Except as specified below for ESALT, when Direct Trunked Transport is ordered to the access tandem, a Local Transport nonrecurring trunk activation charge, as set forth in Section 17.2.1(E), following, will be applied at the access tandem on a per order basis for each group of 24 Direct Trunked Transport trunks or fraction thereof that is activated at the access tandem. (C)
(C)
(T)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges
(Cont'd)

(B) Nonrecurring Charges (Cont'd)

(1) Installation of Service (Cont'd)

A maximum of 24 trunks can be activated on a DS1 facility and a maximum of 672 trunks can be activated on a DS3 facility.

For example, if a customer orders a DS1 Entrance Facility and requests activation of 18 of the available circuits, the customer will be charged one Local Transport High Capacity DS1 Installation nonrecurring charge at the serving wire center and one Direct Trunked Transport Activation nonrecurring charge at the end office. If at a later date the customer requests the activation of three more circuits, the customer will then be charged an additional Direct Trunked Transport Activation nonrecurring charge. These charges are in addition to the Access Order Charge as specified in Section 17.4.1(A), following.

(T)

An ESALT Direct Trunked Termination nonrecurring charge, as specified in Section 17.2.1(F), following, will be applied per ESALT Direct Trunked Termination installed.

(N)

(N)

Certain material previously found on this page now appears on Original Page 6-28.2.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges
(Cont'd)(B) Nonrecurring Charges (Cont'd)(2) Interim NXX Translation Optional Feature

This nonrecurring charge applies to the initial order for the installation of the Interim NXX Translation optional feature with Feature Group C or Feature Group D Switched Access Service and for each subsequent order received to add or change NXX translation codes. This charge, if applicable, applies whether this optional feature is installed coincident with or at any time subsequent to the installation of Switched Access Services. This charge is applied by the Telephone Company per order, per LATA or Market Area. When it is necessary for multiple telephone companies to provide the translation function, the nonrecurring charge is assessed only by the Telephone Company that provides the final translation function which identifies the customer's traffic and this traffic is then delivered to the customer's point of termination without any further translation.

Certain material currently found on this page previously appeared on 1st Revised Page 6-28.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.7 Mixed Use

Mixed use occurs when Switched Access Service and Special Access Service are provided over the same High Capacity or Synchronous Optical Channel facilities through a common interface. The regulations governing the provision of Mixed Use Facilities are set forth in Section 5.2.4, preceding, and Section 7.2.7, following.

(T)

Mixed use also occurs when Ethernet Switched Access Local Transport and Ethernet Transport Service (ETS) are provided over the same ETS facilities through a common interface. The regulations governing the provision of Mixed Use Facilities for these services are set forth in Section 5.2.4, preceding, and Section 16.3.4(D), following.

(N)

(N)

The Telephone Company will designate the first point(s) of switching and routing to be used where equal access traffic is provided through a centralized equal access arrangement. Those Telephone Company offices providing equal access through centralized arrangements are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

Certain material previously found on this page now appears on Original Page 6-52.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

(N)

6.4 Rate Regulations (Cont'd)

(N)

6.4.8 Message Unit Credit for Feature Group A

(M)

Calls from end users to the seven digit local telephone numbers associated with Feature Group A Switched Access Service are subject to Telephone Company local and/or general exchange service tariff charges (including message unit and toll charges as applicable). The monthly bills rendered to customers for their Feature Group A Switched Access Service will include a credit to reflect any message unit charges collected from their end users under the Telephone Company's local and/or general exchange service tariffs. When the customer is provided FGA service where measurement capability does not exist, the credit will apply to access minutes not to exceed the assumed originating access minutes. No credit will apply for any terminating FGA access minutes. The message unit credit for originating access minutes will be based on the generally applicable message unit charges of the Telephone Company.

(M)

Certain material currently found on this page previously appeared on 4th Revised Page 6-52.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.1 Description (Cont'd)

(K) FGA service may not be used in conjunction with ESALT.

(N)

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Description and Provision of Feature Group B (FGB) (Cont'd)6.6.1 Description (Cont'd)

- (H) When all FGB switching arrangements are discontinued at an end office and/or in a LATA, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.
- (I) FGB service may not be used in conjunction with ESALT. (N)
(N)
- (J) The Telephone Companies listed in Section 17.2.4, following will make available in certain Telephone Company designated end offices FGB with an Abbreviated Dialing Arrangement (ADA). Such FGB with an ADA will be provisioned in the same manner in which FGB is provisioned with the exceptions described in Section 6.9.2(A), following. When FGB with an ADA is made available in a non-equal end office, the Telephone Company will continue to make FGB with an associated 950-XXXX access code available to customers at non-premium rates. (T)
(T)
- (K) For FGB switched access service to a Wireless Switching Center (WSC) directly interconnected to a Telephone Company access tandem office, the customer will be billed only the Local Transport premium rate element for the FGB usage. The mileage used to determine the monthly rate for the local transport rate element is as set forth in Section 6.4.6(G), preceding. (T)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.1 Description (Cont'd)

(K) FGC service may not be used in conjunction with ESALT.

(N)
|
(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.1 Description (Cont'd)

(L) Operator Transfer Service (forwarding of 0- calls) may be provided with FGD Switched Access Service at Telephone Company designated Operator Services locations.

The Telephone Company will provide Operator Transfer Service for calls originating from telephone numbers associated with exchange service lines in end office subtending the Operator Services location. Operator Transfer Service is provided as set forth in Section 6.10.4, following.

(M) For FGD Switched Access Service between an end user's premises and an IPG SWC, the customer will be billed the applicable Local Switching, Information Surcharge and Tandem Switched Transport premium rate elements for its FGD usage. The mileage used to determine the monthly rate for the Tandem Switched Facility, when required, is as set forth in Section 6.4.6(J), preceding.

(N) For FGD Switched Access Service between an end user's premises and an ESALT SWC, the customer will be billed the applicable Local Switching, Information Surcharge and Tandem Switched Transport premium rate elements for its FGD usage. The mileage used to determine the monthly rate for the Tandem Switched Facility, when required, is as set forth in Section 6.4.6, preceding.

(N)
 |
 (N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
 80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.2 Optional Features (Cont'd)

(C) Local Transport Options (Cont'd)

(3) Multifrequency Address Signaling

(4) Calling Party Number (CPN) Parameter

(5) Charge Number Parameter (CNP)

(6) Carrier Selection Parameter (CSP)

(7) 64 Clear Channel Capability

The 64 Clear Channel Capability optional feature, due to its technical nature, is set forth in Section 15.1.1, following.

(T)

(8) Carrier Identification Parameter (CIP)

(D) Chargeable Optional Features

(1) Interim NXX Translation

The Interim NXX Translation Optional Feature is set forth in Section 6.10.3(A), following.

(T)

(2) ESALT Real Time Class of Service/Quality of Service (RT CoS/QoS)

(N)

The ESALT RT CoS/QoS optional feature is set forth in Section 6.10.3(E), following.

(3) ESALT Entrance Facility Protection (EFP)

The ESALT EFP optional feature is set forth in Section 6.10.3(F), following.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Description and Provision of Feature Group D (FGD) (Cont'd)6.8.2 Optional Features (Cont'd)(D) Chargeable Optional Features(4) Operator Transfer Service (T)

The Operator Transfer Service Optional Feature is provided as set forth in Section 6.10.3(B), following. (T)

(5) Common Channel Signaling/Signaling System 7 (CCS/SS7) Network Connection Service (CCSNC) (T)

The CCSNC Optional Feature is provided as set forth in Section 6.10.3(C), following. (T)

6.8.3 Design and Traffic Routing

For Feature Group D, the Telephone Company shall design and determine the routing of Tandem Switched Transport service, including the selection of the first point of switching and the selection of facilities from the interface to any switching point and to the end offices where busy hour minutes of capacity are ordered. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups. Finally, the Telephone Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment.

For Feature Group D Direct Trunked Transport service, the Telephone Company will determine the routing of Switched Access Service from the point of interface to the first point of switching or, if the customer specifies one or more hub locations for multiplexing, from the point of interface to the hub location, from one hub location to another hub location, and/or from a hub location to the first point of switching.

 Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.10 Chargeable and Nonchargeable Optional Features (Cont'd)6.10.3 Chargeable Optional Features (Cont'd)(E) Ethernet Switched Access Local Transport
Real Time Class of Service/Quality of Service
(ESALT RT CoS/QoS)

(N)

Where suitable facilities exist, the ESALT RT CoS/QoS option will be available for use on an ESALT Direct Trunked Facility (DTF). This optional arrangement is available only on that portion of the ESALT DTF provided by the Telephone Company within its operating territory. The ESALT RT CoS/QoS option is not available for use with jointly provided ESALT.

When ordered by the customer, the Telephone Company's network will transport the customer's traffic across its network to meet the frame delay, inter frame delay variation and frame loss ratio parameters specified in the following Technical References:

- IEEE Standard 802.1D-2004, Sections 7, 9, 17 and Annex G provided the customer's CPE populates the user priority value field with a value of 6 and
- Implementation Agreement MEF 23.1, January 2012, Table 7, Label H, Regional Performance Tier.

The capacity ordered for the ESALT RT CoS/QoS option must be equal to the full capacity of the associated ESALT DTF.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)6.10 Chargeable and Nonchargeable Optional Features (Cont'd)6.10.3 Chargeable Optional Features (Cont'd)(E) Ethernet Switched Access Local Transport
Real Time Class of Service/Quality of Service
(ESALT RT CoS/QoS) (Cont'd)

When one or more of the ESALT RT CoS/QoS performance criteria specified in the Technical References listed above is not met, the customer reports the performance failure to the Telephone Company and the performance failure does not result in a service interruption of the customer's ESALT, the following provisions will apply in lieu of the credit allowance provisions for service interruptions specified in Section 2.4.4, preceding.

- No credit will be applied for the performance failure when the Telephone Company restores the customer's service to the required ESALT RT CoS/QoS performance criteria levels within four hours after receipt of the trouble report from the customer or when the Telephone Company determines during its trouble investigation that the customer's equipment caused the performance failure.
- When the Telephone Company fails to restore the customer's service to the required ESALT RT CoS/QoS performance criteria levels within four hours after receipt of the trouble report and the trouble is found to be in the Telephone Company's network, the Telephone Company will provide the customer with a service credit equal to 144/1440 of the undiscounted monthly charges for the impacted ESALT DTF(s) and associated ESALT RT CoS/QoS

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)6.10 Chargeable and Nonchargeable Optional Features (Cont'd)6.10.3 Chargeable Optional Features (Cont'd)(E) Ethernet Switched Access Local Transport
Real Time Class of Service/Quality of Service
(ESALT RT CoS/QoS) (Cont'd)

option(s) for the initial four hour period and for each subsequent fractional four hour period until the performance failure is resolved. The total service credits due under this provision during a single billing month may not exceed the total undiscounted monthly charges for the impacted ESALT DTF(s) and associated ESALT RT CoS/QoS option(s).

A capacity based monthly recurring charge (i.e., 2 Mbps, 10 Mbps or 50 Mbps) applies to each ESALT RT CoS/QoS option ordered by the customer in addition to the applicable charges for the associated ESALT DTF. Charges for the ESALT RT CoS/QoS option are as specified in Section 17.2.2(C), following. An Access Order Charge applies to subsequently add the ESALT RT CoS/QoS option to an existing ESALT DTF. The Access Order Charge does not apply to remove the ESALT RT CoS/QoS option.

The Telephone Company specific rate band assignment for the ESALT RT CoS/QoS option is specified in the Local Transport (LT) column in Section 17.5.1, following.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

6. Switched Access Service (Cont'd)6.10 Chargeable and Nonchargeable Optional Features (Cont'd)6.10.3 Chargeable Optional Features (Cont'd)(F) Ethernet Switched Access Local Transport
Entrance Facility Protection (ESALT EFP)

Where suitable facilities exist, an ESALT customer that requires stand-by capability on its ESALT Entrance Facility (EF) may order the ESALT EFP option.

This optional arrangement establishes a stand-by ESALT EF between the customer designated premises and the Telephone Company's suitably equipped serving wire center at the same bandwidth capacity as the customer's ESALT EF, which will be activated to restore service should a failure occur in the customer's ESALT EF. ESALT EFP is not available when the ESALT EF is used in conjunction with mixed use as described in Section 6.4.7, above.

When ordered by the customer, the Telephone Company's network will automatically redirect the customer's IP formatted traffic to the stand-by ESALT EF as described in Technical Reference IEEE Standard 802.1D-2004, Section 17.

A capacity based monthly recurring charge (i.e., 2 Mbps, 10 Mbps or 50 Mbps) and nonrecurring charge applies to each ESALT EFP option ordered by the customer in addition to the applicable charges for the associated ESALT EF. An Access Order Charge applies in addition to the ESALT EFP nonrecurring charge to subsequently add the ESALT EFP option to an existing ESALT EF. Charges for the ESALT EFP option are as specified in Section 17.2.2(D), following.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

16. Public Packet Data Network (Cont'd)

16.3 Ethernet Transport Service (Cont'd)

16.3.4 Rate Regulations (Cont'd)

(A) Rate Categories (Cont'd)

(3) ETS Ethernet Virtual Connections (ETS EVCs)
(Cont'd)

A CoS level is available for use only on an ETS customer's ETS Intraswitch or Interswitch EVC when provided between two ETS Basic Ports located within the Telephone Company's serving territory. The CoS levels available for use with ETS are as described below:

(C)
(C)

- Real Time Class of Service/Quality of Service (RT CoS/QoS) supports applications that require minimal delay and low latency to facilitate steady data flow of user information through the ETS network. Examples of applications requiring a RT CoS/QoS level may include voice, high quality video, and circuit emulation for higher speed special access services. When ordered by the ETS customer, the Telephone Company's network will transport the customer's traffic across its network to meet the frame delay, inter frame delay variation and frame loss ratio parameters specified in the following Technical References:

(C)
(C)

(C)

(C)

- IEEE Standard 802.1D-2004, Sections 7, 9, 17 and Annex G provided the customer's CPE populates the user priority value field with a value of 6 and
- Implementation Agreement MEF 23.1, January 2012, Table 7, Label H, Regional Performance Tier.

(T)
(N)

(N)

Certain material previously found on this page now appears on Original Page 16-44.1.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

16. Public Packet Data Network (Cont'd)

16.3 Ethernet Transport Service (Cont'd)

16.3.4 Rate Regulations (Cont'd)

(A) Rate Categories (Cont'd)

(3) ETS Ethernet Virtual Connections (ETS EVCs)
(Cont'd)

(N)

When the ETS customer's CPE populates its packets with a user priority value of 6, the Telephone Company will provide the highest level of priority routing through its network of those packets up to the RT CoS/QoS level bandwidth capacity ordered before routing any of the ETS customer's other packets received with a user priority value of less than 6.

(M)

(C)

(M)

When one or more of the RT CoS/QoS performance criteria specified in the Technical References listed above is not met, the customer reports the performance failure to the Telephone Company and the performance failure does not result in a service interruption of the customer's ETS, the following provisions will apply in lieu of the credit allowance provisions for service interruptions specified in Section 2.4.4, preceding.

(N)

- No credit will be applied for the performance failure when the Telephone Company restores the customer's service to the required RT CoS/QoS performance criteria levels within four hours after receipt of the trouble report from the customer or when the Telephone Company determines during its trouble investigation that the customer's equipment caused the performance failure.

(N)

Certain material currently found on this page previously appeared on 1st Revised Page 16-44.1.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

16. Public Packet Data Network (Cont'd)

16.3 Ethernet Transport Service (Cont'd)

16.3.4 Rate Regulations (Cont'd)

(A) Rate Categories (Cont'd)

(3) ETS Ethernet Virtual Connections (ETS EVCs)
(Cont'd)

- When the Telephone Company fails to restore the customer's service to the required RT CoS/QoS performance criteria levels within four hours after receipt of the trouble report and the trouble is found to be in the Telephone Company's network, the Telephone Company will provide the customer with a service credit equal to 144/1440 of the undiscounted monthly charges for the impacted ETS EVC(s) and associated RT CoS/QoS level(s) for the initial four hour period and for each subsequent fractional four hour period until the performance failure is resolved. The total service credits due under this provision during a single billing month may not exceed the total undiscounted monthly charges for the impacted ETS EVC(s) and associated RT CoS/QoS level(s).

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE16. Public Packet Data Network (Cont'd)16.3 Ethernet Transport Service (Cont'd)16.3.4 Rate Regulations (Cont'd)(A) Rate Categories (Cont'd)(3) ETS Ethernet Virtual Connections (ETS EVCs)
(Cont'd)

- Near Real Time CoS (NRT CoS) supports applications for which the data flow requires low delay variance and can tolerate some latency in ETS packet transmissions. Examples of applications requiring a NRT CoS level may include priority business applications, multimedia transmissions and streaming video services. When ordered by the ETS customer, the Telephone Company's network will transport traffic as described in IEEE 802.1D-2004, Sections 7, 9, 17 and Annex G provided the ETS customer's CPE populates the user priority value field with a value of 3, 4 or 5. When the ETS customer's CPE populates its packets with a user priority value of 5, 4, or 3, the Telephone Company will provide priority routing through its network of those packets up to the NRT CoS level bandwidth capacity ordered before routing any of the ETS customer's other packets received with a user priority value of less than 3. Unless otherwise requested by the customer and agreed upon by the Telephone Company, NRT CoS level priority routing provides that:
 - 1) packets received with a user priority value of 5 will receive higher priority routing through the Telephone Company's network than packets received with user priority values of 4 or 3 and 2) packets received with a user priority value of 4 will receive higher priority routing through the Telephone Company's network than packets received with a user priority value of 3.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs

80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

16. Public Packet Data Network (Cont'd)16.3 Ethernet Transport Service (Cont'd)16.3.4 Rate Regulations (Cont'd)(A) Rate Categories (Cont'd)(3) ETS Ethernet Virtual Connections (ETS EVCs)
(Cont'd)

When an ETS customer orders a CoS, it must specify the CoS level(s) needed, the total bandwidth capacity for each CoS level and the associated ETS EVC(s). The ETS customer may order a CoS level to be established at the same time as the associated ETS Intraswitch or Interswitch EVC is established. The ETS customer may also order a CoS level to be added to an existing associated ETS Intraswitch or Interswitch EVC.

An ETS customer may order multiple CoS levels for use on the same ETS EVC. The total bandwidth capacity ordered for all CoS levels associated with a single ETS EVC cannot exceed the bandwidth capacity of the ETS EVC. For example, an ETS customer with a 500 Mbps ETS Interswitch EVC between two 500 Mbps ETS Basic Ports could order 300 Mbps of NRT CoS and 200 Mbps of RT CoS/QoS. (T)
(T)

The ETS customer's traffic will receive priority routing treatment up to the available bandwidth capacity of the CoS level ordered. Any ETS customer traffic received by the Telephone Company's network beyond the available bandwidth capacity of the CoS level(s) ordered will be transported by the Telephone Company's network at best effort.

 Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

 Director - Access Tariffs
 80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

16. Public Packet Data Network (Cont'd)16.3 Ethernet Transport Service (Cont'd)16.3.4 Rate Regulations (Cont'd)(A) Rate Categories (Cont'd)(3) ETS Ethernet Virtual Connections (ETS EVCs)
(Cont'd)

If an ETS customer orders a CoS level with a bandwidth capacity that is less than the total bandwidth capacity of the associated ETS EVC, the remaining non-assigned capacity will be transported by the Telephone Company's network at best effort. For example, an ETS customer with a 100 Mbps ETS Interswitch EVC between two 100 Mbps ETS Basic Ports orders 70 Mbps of NRT CoS. (T)

If the ETS customer's CPE populates the user priority value field with a value of 3 and transmits at the full capacity of the ETS EVC, the Telephone Company's network would transport 70 Mbps of the ETS customer's traffic using NRT CoS routing treatment (T) and the remaining non-assigned 30 Mbps at best effort.

The total bandwidth capacity of all CoS levels associated with one or more ETS EVCs connected to the same ETS Basic Port may not exceed the total bandwidth capacity available on that ETS Basic Port.

 Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

 Director - Access Tariffs
 80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

16. Public Packet Data Network (Cont'd)

16.3 Ethernet Transport Service (Cont'd)

16.3.4 Rate Regulations (Cont'd)

(A) Rate Categories (Cont'd)

(3) ETS Ethernet Virtual Connections (ETS EVCs)
 (Cont'd)

When a CoS level has been established on an associated ETS EVC and the user priority value field is populated with a value that is equal to or less than the CoS level ordered, the Telephone Company's network will transport the ETS customer's traffic using the user priority value populated. For example, if an ETS customer has a 250 Mbps ETS Intraswitch EVC, orders 100 Mbps of RT CoS/QoS (i.e., associated with user priority value of 6) and transmits 250 Mbps of traffic with a user priority value of 3 populated (i.e., NRT CoS), the Telephone Company's network would transport 100 Mbps of the ETS customer's traffic using NRT CoS routing treatment and the remaining non-assigned 150 Mbps at best effort. (T)

When a CoS level has been established on an associated ETS EVC and the user priority value field is populated with a value greater than the CoS level ordered, the Telephone Company's network will transport the ETS customer's traffic using the user priority value of the CoS level ordered. For example, if an ETS customer has a 250 Mbps ETS Intraswitch EVC, orders 100 Mbps of NRT CoS (i.e., associated with user priority value 3, 4 or 5) and transmits 250 Mbps of traffic with a user priority value of 6 populated (i.e., RT CoS/QoS), the Telephone Company's network would transport 100 Mbps of the ETS customer's traffic using NRT CoS routing treatment and the remaining non-assigned 150 Mbps at best effort. (T)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

16. Public Packet Data Network (Cont'd)16.3 Ethernet Transport Service (Cont'd)16.3.4 Rate Regulations (Cont'd)(A) Rate Categories (Cont'd)(3) ETS Ethernet Virtual Connections (ETS EVCs)
(Cont'd)

A monthly recurring charge applies based on the total bandwidth capacity of each CoS level ordered and the type (i.e., Intraswitch or Interswitch) and bandwidth capacity of the associated ETS EVC. The monthly recurring charge is calculated by multiplying the applicable per megabit rate for the specified CoS level, which is based upon the type (i.e., Intraswitch or Interswitch) and bandwidth capacity of the associated ETS EVC, by the number of megabits ordered. Rates are specified in Sections 17.4.8(C)(3)(a) and (b), following, or when applicable, as specified in Section 17.4.8(C)(9), following. The Telephone Company specific rate band assignment for the ETS Class of Service rate element is specified in the Special Access (SPA) column in Section 17.5.1, following, or when applicable, in Section 17.4.8(C)(9), following.

As an example, an ETS customer with a single 100 Mbps ETS Interswitch EVC between two 100 Mbps ETS Basic Ports orders a total of 30 Mbps of NRT CoS. The monthly charge would be calculated by multiplying the per megabit rate for the NRT CoS level for the associated 100 Mbps ETS Interswitch EVC by 30. The monthly recurring charge for the CoS level in this example would apply in addition to the monthly recurring charges for the 100 Mbps ETS Interswitch EVC and two 100 Mbps ETS Basic Ports.

(T)

(T)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

ACCESS SERVICE

(N)

16. Public Packet Data Network (Cont'd)16.3 Ethernet Transport Service (Cont'd)16.3.4 Rate Regulations (Cont'd)(D) Mixed Use

Mixed use refers to a rate applicable when the customer orders Ethernet Transport Service between its CDP and an ETS-equipped SWC when the same customer also orders a portion of the available bandwidth capacity on its ETS Basic Port at that SWC as Ethernet Switched Access Local Transport (ESALT).

Mixed use is only available at SWCs designated by the Telephone Company in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff F.C.C. No. 4 as being both ETS and ESALT equipped.

Where suitable facilities exist, mixed use arrangements are available when provided by the Telephone Company within its serving territory and when jointly provided by the Telephone Company with another telephone company in an adjacent or non-adjacent serving territory as described for ESALT in Section 6.1, preceding.

Mixed use arrangements are not available when the customer uses ETS Interconnection Ports and associated Special Access Services. Mixed use arrangements are also not available when jointly provided with another telephone company in a non-adjacent serving territory where the number of miles between the ETS SWC serving the customer's CDP and the ESALT SWC is greater than 75 airline miles.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

16. Public Packet Data Network (Cont'd)16.3 Ethernet Transport Service (Cont'd)16.3.4 Rate Regulations (Cont'd)(D) Mixed Use (Cont'd)

The initial facilities between the CDP and ETS-equipped SWC will be ordered, provided and rated as ETS (e.g., including where applicable based on its configuration, ETS Basic Ports, ETS Channel Terminations, ETS EVCs, optional features, etc.). The nonrecurring charges that apply when these components are installed will be the nonrecurring charges associated with the applicable ETS rate elements as specified in Section 17.4.8, following.

Rating as ETS will continue until such time as the customer places an order to activate a portion of the available ETS bandwidth capacity for use as ESALT. It is at this point the ETS facilities between the CDP and ETS-equipped SWC become mixed use subject to the following provisions.

As specified in Section 6.1, preceding, ESALT is available in increments of 2 Mbps, 10 Mbps and 50 Mbps. As each 2 Mbps, 10 Mbps or 50 Mbps increment of capacity on the customer's ETS Basic Port is activated for use as ESALT, the monthly rates for the applicable ETS rate elements for the shared mixed use facilities between the ETS/ESALT SWC and the CDP, excluding the monthly rate for the ETS Port Protection feature, will be reduced by a factor reflecting the capacity used for ESALT divided by the total capacity available on the mixed use facilities. The monthly rates for the ETS Port Protection feature and for other non-shared ETS rate elements used between the ETS/ESALT SWC and other locations will not be reduced by this adjustment factor.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

16. Public Packet Data Network (Cont'd)16.3 Ethernet Transport Service (Cont'd)16.3.4 Rate Regulations (Cont'd)(D) Mixed Use (Cont'd)

For example, the customer orders 10 Mbps on its existing 100 Mbps ETS Basic Port, 100 Mbps ETS Channel Termination and ETS Port Protection feature activated for use as ESALT at the ETS/ESALT SWC serving the CDP. In this example, the adjustment factor used would be 10% (i.e., 10 Mbps/100 Mbps), which would be applied to the undiscounted monthly rates for the 100 Mbps ETS Basic Port and the 100 Mbps ETS Channel Termination. This adjustment factor would not be applied to the monthly rate for the ETS Port Protection feature or to any other non-shared ETS rate elements ordered by the customer to connect to other locations.

If the ETS monthly charges for the shared mixed use facilities are subject to an ETS Term Discount Plan discount as set forth in Section 16.3.5, following, the ETS monthly charges for the shared ETS facilities will be reduced to reflect mixed use before any ETS Term Discount Plan discount is applied.

Switched Access Service rates and charges, as set forth in Section 17.2, following, will apply for each 2 Mbps, 10 Mbps or 50 Mbps increment of capacity on the customer's ETS Basic Port activated for use as ESALT. The Switched Access Service monthly rates for the ESALT components activated on shared mixed use ETS facilities will not be reduced to reflect mixed use and are not subject to any ETS Term Discount Plan discount.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

16. Public Packet Data Network (Cont'd)16.3 Ethernet Transport Service (Cont'd)16.3.4 Rate Regulations (Cont'd)(D) Mixed Use (Cont'd)

When the customer orders the activation of capacity of its existing ETS for use as ESALT, the customer must provide the information specified in Section 5.2.1(G), preceding, on its order. In addition to the applicable ESALT nonrecurring charges for the service components ordered, an Access Order Charge will apply per order. The customer may order multiple increments of capacity for use as ESALT on the same access order, in which case only one Access Order Charge will apply.

When the customer orders both ETS and ESALT installed at the same ETS/ESALT SWC at the same time, the Telephone Company will waive the Access Order Charge and associated ESALT nonrecurring charges that would otherwise apply for the service components ordered on the ESALT order provided the customer's ESALT and ETS orders cross reference each other. An Access Order Charge and associated ETS nonrecurring charges will apply for the service components ordered on the ETS order.

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service

17.2.1 <u>Nonrecurring Charges</u>	<u>Rate</u>	<u>Tariff Section Reference</u>	(N)
(A) <u>Local Transport - Installation Per Entrance Facility</u>		6.4.1(B)(1)	(N)
- Voice Grade Two-Wire	\$467.46		(M)
- Voice Grade Four-Wire	\$467.46		
- High Capacity DS1	\$342.80		
- High Capacity DS3	\$462.26		
- Synchronous Optical Channel OC3	\$373.96		
- Synchronous Optical Channel OC12	\$373.96		(M)
- ESALT 2 Mbps	\$554.00		(N)
- ESALT 10 Mbps	\$554.00		
- ESALT 50 Mbps	\$554.00		(N)
(C) <u>Interim NXX Translation Per Order</u>		6.4.1(B)(2)	(M)
Per LATA or Market Area	\$228.53		
(D) <u>FGC and FGD Conversion of Multifrequency Address Signaling to SS7 Signaling or SS7 Signaling to Multifrequency Address Signaling</u>		6.4.1(B)(3)	
- Per 24 Trunks Converted or Fraction thereof on a Per Order Basis	\$459.14		
(E) <u>Trunk Activation Per Order</u>		6.4.1(B)(1)	
- Per 24 Trunks Activated or Fraction thereof, on a Per Order Basis	\$476.80		(M)

Certain material currently found on this page previously appeared on 33rd Revised Page 17-10.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
 80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd) (T)

17.2.1 <u>Nonrecurring Charges</u> (Cont'd)	<u>Rate</u>	<u>Tariff Section Reference</u>	(T)
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(F) <u>ESALT Direct Trunked Termination</u>		6.4.1(B)(1)	(N)
- Per ESALT Direct Trunked Termination Installed	\$365.00		(N)
(G) <u>Flexible Automatic Number Identification (Flex ANI)</u>		6.10.1(AA)	
- Per End Office, Per CIC	None		
(H) <u>ESALT Entrance Facility Protection</u>		6.10.3	(N)
- Entrance Facility	Per ESALT \$560.00		(N)

Certain material previously found on this page now appears on 31st Revised Page 17-9.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
 80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.2 Local Transport

Premium Access

Entrance Facility, Per Termination

Tariff
 Section
Reference
 6.1.3(A)(1)

Rate Band	Monthly Rate					
	Voice Grade 2-Wire	Voice Grade 4-Wire	High Capacity DS1	High Capacity DS3	Synchronous Optical Channel OC3	Synchronous Optical Channel OC12
1	\$19.57	\$31.32	\$95.42	\$871.33	\$888.50	\$948.62
2	\$21.82	\$34.92	\$106.39	\$971.46	\$990.60	\$1,057.63
3	\$26.25	\$42.01	\$127.99	\$1,168.59	\$1,191.62	\$1,272.26
4	\$28.54	\$45.67	\$139.14	\$1,270.42	\$1,295.45	\$1,383.12
5	\$29.21	\$46.76	\$142.44	\$1,300.54	\$1,326.17	\$1,415.92
6	\$32.68	\$52.29	\$159.32	\$1,454.66	\$1,483.32	\$1,583.71
7	\$40.72	\$65.15	\$198.50	\$1,812.49	\$1,848.20	\$1,973.28
8	\$45.65	\$73.06	\$222.58	\$2,032.33	\$2,072.37	\$2,212.62
9	\$59.26	\$94.83	\$288.92	\$2,638.05	\$2,690.03	\$2,872.08
10	\$79.19	\$126.72	\$386.07	\$3,525.08	\$3,594.53	\$3,837.80
11	\$84.87	\$135.81	\$413.77	\$3,777.98	\$3,852.42	\$4,113.14

Entrance Facility, Per Termination

Rate Band	Monthly Rate		
	ESALT 2 Mbps	ESALT 10 Mbps	ESALT 50 Mbps
1	\$169.03	\$182.17	\$236.02
2	\$188.45	\$203.11	\$263.13
3	\$226.69	\$244.32	\$316.54
4	\$246.44	\$265.61	\$344.12
5	\$252.28	\$271.91	\$352.28
6	\$282.18	\$304.13	\$394.03
7	\$351.59	\$378.95	\$490.95
8	\$394.24	\$424.91	\$550.50
9	\$511.74	\$551.55	\$714.57
10	\$683.81	\$737.00	\$954.84
11	\$732.87	\$789.89	\$1,023.35

(N)

(N)

Certain material previously found on this page now appears on 7th Revised Page 17-10.1.1.

Refer to the Local Transport (LT) column in the Rate Band Table in Section 17.5.1, following, to view company specific rate band assignments.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
 80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.2 Local Transport (Cont'd)

Premium Access (Cont'd)

Tariff
Section
Reference
6.1.3(A)(2)

Direct Trunked Transport (Cont'd)

Direct Trunked Facility, Per Mile

(T)

Monthly Rate

Rate Band	Voice	Voice	High	High	Synchronous	Synchronous
	Grade 2-Wire	Grade 4-Wire	Capacity DS1	Capacity DS3	Optical Channel OC3	Optical Channel OC12
1	\$1.39	\$1.39	\$6.53	\$56.96	\$60.97	\$76.53
2	\$1.56	\$1.56	\$7.29	\$63.50	\$67.97	\$85.32
3	\$1.87	\$1.87	\$8.77	\$76.38	\$81.76	\$102.63
4	\$2.04	\$2.04	\$9.54	\$83.04	\$88.89	\$111.58
5	\$2.08	\$2.08	\$9.75	\$85.00	\$91.00	\$114.21
6	\$2.33	\$2.33	\$10.92	\$95.08	\$101.78	\$127.75
7	\$2.90	\$2.90	\$13.60	\$118.47	\$126.82	\$159.17
8	\$3.25	\$3.25	\$15.25	\$132.84	\$142.20	\$178.48
9	\$4.22	\$4.22	\$19.80	\$172.43	\$184.58	\$231.68
10	\$5.64	\$5.64	\$26.45	\$230.41	\$246.65	\$309.58
11	\$6.05	\$6.05	\$28.35	\$246.94	\$264.34	\$331.79

(M)

(M)

Direct Trunked Facility, Per DTF-E1 Facility

(N)

Monthly Rate

Rate Band	ESALT	ESALT	ESALT
	2 Mbps	10 Mbps	50 Mbps
1	\$19.26	\$48.83	\$136.72
2	\$21.47	\$54.44	\$152.43
3	\$25.83	\$65.49	\$183.37
4	\$28.08	\$71.19	\$199.35
5	\$28.75	\$72.88	\$204.07
6	\$32.15	\$81.52	\$228.26
7	\$40.06	\$101.57	\$284.40
8	\$44.92	\$113.89	\$318.90
9	\$58.31	\$147.83	\$413.95
10	\$77.91	\$197.54	\$553.13
11	\$83.50	\$211.71	\$592.82

(N)

Certain material previously found on this page now appears on Original Page 17-10.1.4.

Certain material currently found on this page previously appeared on 39th Revised Page 17-10.1.

Refer to the Local Transport (LT) column in the Rate Band Table in Section 17.5.1, following, to view company specific rate band assignments.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.2 Local Transport (Cont'd)

Premium Access (Cont'd)

Tariff
Section
Reference
6.1.3(A)(2)

Direct Trunked Transport (Cont'd)

Direct Trunked Facility, Per DTF-E2 Facility

Monthly Rate

<u>Rate Band</u>	<u>ESALT 2 Mbps</u>	<u>ESALT 10 Mbps</u>	<u>ESALT 50 Mbps</u>
1	\$12.84	\$29.30	\$91.15
2	\$14.32	\$32.67	\$101.63
3	\$17.22	\$39.30	\$122.25
4	\$18.72	\$42.72	\$132.90
5	\$19.17	\$43.73	\$136.06
6	\$21.44	\$48.91	\$152.18
7	\$26.71	\$60.95	\$189.61
8	\$29.95	\$68.34	\$212.61
9	\$38.88	\$88.71	\$275.98
10	\$51.95	\$118.54	\$368.77
11	\$55.68	\$127.04	\$395.23

(N)

Refer to the Local Transport (LT) column in the Rate Band Table in Section 17.5.1, following, to view company specific rate band assignments.

(N)
(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.2 Local Transport (Cont'd)

Premium Access (Cont'd)

Tariff
Section
Reference
6.1.3(A)(2)

Direct Trunked Transport (Cont'd)

Direct Trunked Facility, Per DTF-E3 Facility

Monthly Rate

<u>ESALT</u> <u>2 Mbps</u>	<u>ESALT</u> <u>10 Mbps</u>	<u>ESALT</u> <u>50 Mbps</u>
\$154.68	\$389.40	\$1,271.74

Direct Trunked Facility, Per DTF-E4 Facility

Monthly Rate

<u>ESALT</u> <u>2 Mbps</u>	<u>ESALT</u> <u>10 Mbps</u>	<u>ESALT</u> <u>50 Mbps</u>
\$259.04	\$798.68	\$2,266.50

(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.2 Local Transport (Cont'd)

Premium Access (Cont'd)

Direct Trunked Transport (Cont'd)

Direct Trunked Termination, Per Termination

Tariff
Section
Reference
6.1.3(A)(2)

(N)

(N)

Monthly Rate

Rate Band	Voice Grade 2-Wire	Voice Grade 4-Wire	High Capacity DS1	High Capacity DS3	Synchronous Optical Channel OC3	Synchronous Optical Channel OC12
1	\$14.01	\$14.01	\$33.93	\$217.82	\$226.81	\$493.82
2	\$15.62	\$15.62	\$37.82	\$242.86	\$252.87	\$550.57
3	\$18.79	\$18.79	\$45.50	\$292.14	\$304.18	\$662.30
4	\$20.43	\$20.43	\$49.46	\$317.60	\$330.69	\$720.01
5	\$20.91	\$20.91	\$50.63	\$325.13	\$338.53	\$737.08
6	\$23.39	\$23.39	\$56.63	\$363.66	\$378.65	\$824.42
7	\$29.15	\$29.15	\$70.56	\$453.11	\$471.79	\$1,027.23
8	\$32.68	\$32.68	\$79.12	\$508.07	\$529.01	\$1,151.82
9	\$42.42	\$42.42	\$102.71	\$659.50	\$686.68	\$1,495.11
10	\$56.69	\$56.69	\$137.24	\$881.25	\$917.57	\$1,997.83
11	\$60.75	\$60.75	\$147.09	\$944.48	\$983.41	\$2,141.16

(M)

(M)

Direct Trunked Termination, Per Termination

Monthly Rate

Rate Band	ESALT 2 Mbps	ESALT 10 Mbps	ESALT 50 Mbps
1	\$44.94	\$54.93	\$67.14
2	\$50.10	\$61.25	\$74.85
3	\$60.27	\$73.67	\$90.05
4	\$65.52	\$80.09	\$97.89
5	\$67.07	\$81.99	\$100.21
6	\$75.02	\$91.71	\$112.09
7	\$93.47	\$114.27	\$139.66
8	\$104.81	\$128.13	\$156.60
9	\$136.05	\$166.32	\$203.27
10	\$181.79	\$222.24	\$271.62
11	\$194.84	\$238.19	\$291.11

(N)

(N)

Certain material currently found on this page previously appeared on 6th Revised Page 17-10.1.1.

Refer to the Local Transport (LT) column in the Rate Band Table in Section 17.5.1, following, to view company specific rate band assignments.

(N)

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Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

(N)

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.2 Local Transport (Cont'd)

Tariff
Section
Reference
6.10.3

(C) ESALT Real Time CoS/QoS
Per ESALT Direct Trunked Facility, Per Option

Rate Band	Monthly Rate		
	ESALT 2 Mbps	ESALT 10 Mbps	ESALT 50 Mbps
1	\$3.68	\$18.40	\$57.00
2	\$4.10	\$20.50	\$64.00
3	\$4.94	\$24.70	\$77.00
4	\$5.36	\$26.80	\$83.50
5	\$5.50	\$27.50	\$85.50
6	\$6.14	\$30.70	\$95.50
7	\$7.66	\$38.30	\$119.00
8	\$8.58	\$42.90	\$133.50
9	\$11.14	\$55.70	\$173.50
10	\$14.88	\$74.40	\$231.50
11	\$15.94	\$79.70	\$248.00

(D) ESALT Entrance Facility Protection
Per ESALT Entrance Facility

Monthly Rate		
ESALT 2 Mbps	ESALT 10 Mbps	ESALT 50 Mbps
\$276.16	\$276.16	\$276.16

(N)

Refer to the Local Transport (LT) column in the Rate Band Table in Section 17.5.1, following, to view company specific rate band assignments.

(N)
(N)

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.8(C) Ethernet Transport Service (Cont'd)

(3) ETS Ethernet Virtual Connections (EVCs) (Cont'd)

(a) Per Intraswitch ETS EVC (Cont'd)

Class of Service (CoS) Levels for Intraswitch ETS EVC at speeds of 2 Mbps to 20 Mbps

Monthly Rate Per CoS Level, Per Megabit

<u>Rate Band</u>	<u>Near Real Time CoS</u>	<u>Real Time Cos/QoS</u>	(T)
1	\$0.13	\$0.27	(T)
2	\$0.20	\$0.40	(T)
3	\$0.27	\$0.54	
4	\$0.33	\$0.68	
5	\$0.40	\$0.82	
6	\$0.47	\$0.95	
7	\$0.54	\$1.09	
8	\$0.60	\$1.23	
9	\$0.67	\$1.36	
10	\$0.74	\$1.50	
11	\$0.81	\$1.64	
12	\$0.87	\$1.77	
13	\$0.94	\$1.91	
14	\$1.01	\$2.05	
15	\$1.08	\$2.19	
16	\$1.14	\$2.32	
17	\$1.21	\$2.46	
18	\$1.28	\$2.60	
19	\$1.35	\$2.73	
20	\$1.41	\$2.87	
21	\$1.48	\$3.01	
22	\$1.86	\$3.78	

Refer to the Special Access (SPA) column in the Rate Band Table in Section 17.5.1, following, to view company specific rate band assignments.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.8(C) Ethernet Transport Service (Cont'd)

(3) ETS Ethernet Virtual Connections (EVCs) (Cont'd)

(a) Per Intraswitch ETS EVC (Cont'd)

Class of Service (CoS) Levels for Intraswitch ETS EVC at speeds of 50 Mbps to 250 Mbps

Monthly Rate Per CoS Level, Per Megabit

<u>Rate Band</u>	<u>Near Real Time CoS</u>	<u>Real Time Cos/QoS</u>	(T)
1	\$0.08	\$0.15	(T)
2	\$0.12	\$0.23	(T)
3	\$0.16	\$0.31	
4	\$0.20	\$0.39	
5	\$0.24	\$0.46	
6	\$0.28	\$0.54	
7	\$0.32	\$0.62	
8	\$0.36	\$0.70	
9	\$0.40	\$0.77	
10	\$0.44	\$0.85	
11	\$0.48	\$0.93	
12	\$0.52	\$1.01	
13	\$0.56	\$1.08	
14	\$0.60	\$1.16	
15	\$0.64	\$1.24	
16	\$0.68	\$1.32	
17	\$0.72	\$1.39	
18	\$0.76	\$1.47	
19	\$0.80	\$1.55	
20	\$0.84	\$1.63	
21	\$0.88	\$1.71	
22	\$1.10	\$2.14	

Refer to the Special Access (SPA) column in the Rate Band Table in Section 17.5.1, following, to view company specific rate band assignments.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.8(C) Ethernet Transport Service (Cont'd)

(3) ETS Ethernet Virtual Connections (EVCs) (Cont'd)

(a) Per Intraswitch ETS EVC (Cont'd)

Class of Service (CoS) Levels for Intraswitch ETS EVC at speeds of 500 Mbps to 1 Gbps

Monthly Rate Per CoS Level, Per Megabit

<u>Rate Band</u>	<u>Near Real Time CoS</u>	<u>Real Time CoS/QoS</u>	(T)
1	\$0.04	\$0.09	(T)
2	\$0.07	\$0.13	(T)
3	\$0.09	\$0.18	
4	\$0.11	\$0.22	
5	\$0.13	\$0.27	
6	\$0.16	\$0.31	
7	\$0.18	\$0.36	
8	\$0.20	\$0.40	
9	\$0.22	\$0.45	
10	\$0.25	\$0.49	
11	\$0.27	\$0.54	
12	\$0.29	\$0.58	
13	\$0.31	\$0.63	
14	\$0.34	\$0.67	
15	\$0.36	\$0.72	
16	\$0.38	\$0.76	
17	\$0.40	\$0.81	
18	\$0.43	\$0.85	
19	\$0.45	\$0.90	
20	\$0.47	\$0.94	
21	\$0.49	\$0.99	
22	\$0.62	\$1.24	

Refer to the Special Access (SPA) column in the Rate Band Table in Section 17.5.1, following, to view company specific rate band assignments.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.8(C) Ethernet Transport Service (Cont'd)

(3) ETS Ethernet Virtual Connections (EVCs) (Cont'd)

(b) Per Interswitch ETS EVC (Cont'd)

Class of Service (CoS) Levels for Interswitch ETS EVC at speeds of 2 Mbps to 20 Mbps

Monthly Rate Per CoS Level, Per Megabit

<u>Rate Band</u>	<u>Near Real Time CoS</u>	<u>Real Time CoS/QoS</u>	(T)
1	\$0.44	\$0.89	(T)
2	\$0.67	\$1.34	(T)
3	\$0.89	\$1.79	
4	\$1.12	\$2.24	
5	\$1.35	\$2.70	
6	\$1.57	\$3.15	
7	\$1.80	\$3.60	
8	\$2.02	\$4.06	
9	\$2.25	\$4.51	
10	\$2.47	\$4.96	
11	\$2.70	\$5.41	
12	\$2.93	\$5.87	
13	\$3.15	\$6.32	
14	\$3.38	\$6.77	
15	\$3.60	\$7.22	
16	\$3.83	\$7.68	
17	\$4.06	\$8.13	
18	\$4.28	\$8.58	
19	\$4.51	\$9.04	
20	\$4.73	\$9.49	
21	\$4.96	\$9.94	
22	\$6.24	\$12.50	

Refer to the Special Access (SPA) column in the Rate Band Table in Section 17.5.1, following, to view company specific rate band assignments.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
 80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.8(C) Ethernet Transport Service (Cont'd)

(3) ETS Ethernet Virtual Connections (EVCs) (Cont'd)

(b) Per Interswitch ETS EVC (Cont'd)

Class of Service (CoS) Levels for Interswitch ETS EVC at speeds of 50 Mbps to 250 Mbps

Monthly Rate Per CoS Level, Per Megabit

<u>Rate Band</u>	<u>Near Real Time CoS</u>	<u>Real Time CoS/QoS</u>	(T)
1	\$0.28	\$0.55	(T)
2	\$0.42	\$0.83	(T)
3	\$0.56	\$1.12	
4	\$0.70	\$1.40	
5	\$0.84	\$1.68	
6	\$0.98	\$1.96	
7	\$1.12	\$2.24	
8	\$1.26	\$2.53	
9	\$1.40	\$2.81	
10	\$1.55	\$3.09	
11	\$1.69	\$3.37	
12	\$1.83	\$3.65	
13	\$1.97	\$3.94	
14	\$2.11	\$4.22	
15	\$2.25	\$4.50	
16	\$2.39	\$4.78	
17	\$2.53	\$5.07	
18	\$2.67	\$5.35	
19	\$2.81	\$5.63	
20	\$2.96	\$5.91	
21	\$3.10	\$6.19	
22	\$3.89	\$7.79	

Refer to the Special Access (SPA) column in the Rate Band Table in Section 17.5.1, following, to view company specific rate band assignments.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.8(C) Ethernet Transport Service (Cont'd)

(3) ETS Ethernet Virtual Connections (EVCs) (Cont'd)

(b) Per Interswitch ETS EVC (Cont'd)

Class of Service (CoS) Levels for Interswitch ETS EVC at speeds of 500 Mbps to 1 Gbps

Monthly Rate Per CoS Level, Per Megabit

<u>Rate Band</u>	<u>Near Real Time CoS</u>	<u>Real Time CoS/QoS</u>	(T)
1	\$0.17	\$0.33	(T)
2	\$0.25	\$0.50	(T)
3	\$0.34	\$0.67	
4	\$0.42	\$0.84	
5	\$0.51	\$1.01	
6	\$0.59	\$1.18	
7	\$0.67	\$1.35	
8	\$0.76	\$1.52	
9	\$0.84	\$1.69	
10	\$0.93	\$1.86	
11	\$1.01	\$2.03	
12	\$1.10	\$2.20	
13	\$1.18	\$2.37	
14	\$1.27	\$2.54	
15	\$1.35	\$2.71	
16	\$1.44	\$2.88	
17	\$1.52	\$3.05	
18	\$1.61	\$3.22	
19	\$1.69	\$3.39	
20	\$1.78	\$3.56	
21	\$1.86	\$3.73	
22	\$2.34	\$4.68	

Refer to the Special Access (SPA) column in the Rate Band Table in Section 17.5.1, following, to view company specific rate band assignments.

Transmittal No. 1403

Issued: November 7, 2013

Effective: November 22, 2013

Director - Access Tariffs
80 So. Jefferson Road, Whippany, NJ 07981