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Section	Question	Response
	Provider Name	TDS TELECOMMUNICATIONS CORPORATION
	Holding Company Name	Telephone and Data Systems, Inc.
Filer Information	SAC ID	100005, 100007, 100010, 100011, 100024, 100031, 100034, 120045, 120047, 120049, 120050, 123321, 140058, 140061, 140062, 150089, 150092, 150114, 150118, 150129, 150133, 170183, 170206, 190217, 190253, 193029, 210338, 220338, 220346, 220351, 220375, 240533, 240535, 240544, 240551, 250284, 250311, 250314, 260411, 260412, 260417, 280448, 283301, 287449, 290559, 290566, 290575, 290578, 300585, 300607, 300613, 300645, 300662, 310672, 310677, 310685, 310726, 310738, 320744, 320776, 320777, 320778, 320778, 320788, 320809, 320816, 320829, 320830, 320837, 330849, 330851, 330856, 330859, 330875, 330880, 330881, 330909, 330914, 330915, 330917, 330930, 330943, 330945, 330952, 330954, 330955, 330958, 330968, 361350, 361362, 361413, 361433, 361507, 431984, 432010, 452171, 452174, 462184, 462207, 472230, 522404, 522427, 522430, 532404, 542321, 542322, 542323

Section	Question	Response
	499 ID	801201, 801264, 801558, 801561, 801576, 801840, 801945, 802068, 802134, 803232, 804465, 804768, 804819, 805377, 805434, 805437, 805446, 805449, 805455, 805461, 805467, 805473, 805479, 805485, 805560, 805563, 805566, 805569, 805572, 805578, 805578, 805584, 805585, 805587, 805590, 805593, 805596, 805602, 805866, 806409, 806523, 806526, 806529, 806532, 806535, 806538, 806541, 806544, 806547, 806550, 806553, 806556, 806559, 806565, 806568, 806574, 806577, 806580, 806583, 806586, 806589, 806592, 806592, 806604, 806607, 806610, 806613, 806619, 806622, 806625, 806628, 806631, 806634, 806637, 806766, 806775, 806781, 806784, 806787, 806790, 806793, 806796, 806799, 806802, 806805, 806808, 806814, 806817, 806820, 806823, 806862, 807207, 807810, 807813, 808275, 808374, 808410, 808419, 808425, 809001, 809034, 809218, 809570, 809790
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Section Question Response

Certifying

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Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Tds_fixed_broadband_deployment2.txt	Aug 23, 2016 14:23:01	74796
Fixed Broadband Subscription	ilec_data 2.csv	Aug 26, 2016 14:34:15	6700
Fixed Voice Subscription	ilec_voice.csv	Aug 22, 2016 16:08:21	1186

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks

ADSL2

Alabama TDS TELECOM Asymmetric xDSL

Optical Carrier/Fiber to the End User

1726

State	DBA Name	Technology	Blocks
		VDSL	524
		ADSL2	245
Arizona	TDS TELECOM	Asymmetric xDSL	406
		VDSL	200
Arkansas	TDS TELECOM	ADSL2	205
Arkansas	TBG TELEGOIVI	Asymmetric xDSL	202
		ADSL2	103
California	TDS TELECOM	Asymmetric xDSL	306
		VDSL	3
		ADSL2	518
Colorado	TDS TELECOM	Asymmetric xDSL	438
		VDSL	369
		ADSL2	608
Florida	TDS TELECOM	Asymmetric xDSL	339
		Optical Carrier/Fiber to the End User	

State	DBA Name	Technology	Blocks
		VDSL	473
		ADSL2	1818
Georgia	TDS TELECOM	Asymmetric xDSL	1189
Georgia	TDS TELECONI	Optical Carrier/Fiber to the End User	273
		VDSL	1313
		ADSL2	106
ldaho	TDS TELECOM	Asymmetric xDSL	116
		VDSL	153
		ADSL2	1875
Indiana	TDS TELECOM	Asymmetric xDSL	1679
iliulalia	100 TELECOM	Optical Carrier/Fiber to the End User	455
		VDSL	1093
Kentucky		ADSL2	708
	TDS TELECOM	Asymmetric xDSL	631
		Optical Carrier/Fiber to the End User	79

State	DBA Name	Technology	Blocks
		VDSL	250
		ADSL2	979
Maine	TDS TELECOM	Asymmetric xDSL	1186
Manie	TD3 TELEGOW	Optical Carrier/Fiber to the End User	26
		VDSL	791
		ADSL2	1288
Michigan	TDS TELECOM	Asymmetric xDSL	1137
oga	TDO TELEGOM	Optical Carrier/Fiber to the End User	37
		VDSL	723
		ADSL2	1533
Minnesota	TDS TELECOM	Asymmetric xDSL	1308
Mississippi		Optical Carrier/Fiber to the End User	329
		VDSL	948
	TDS TELECOM	ADSL2	785
		Asymmetric xDSL	565

State	DBA Name	Techno	ology	Blocks
		Optical Carrier/Fiber to the End User		22
		VDSL		165
		ADSL2		839
New Hampshire	TDS TELECOM	Asymmetric xDSL		657
Now Hamponic	150 122200M	Optical Carrier/Fiber to the End User		1955
		VDSL		477
	TDS TELECOM	ADSL2		1314
New York		Asymmetric xDSL		1310
		VDSL		425
	TDS TELECOM	ADSL2		761
Ohio		Asymmetric xDSL		736
		VDSL		104
		ADSL2		777
Oklahoma	TDS TELECOM	Asymmetric xDSL		958
		Optical Carrier/Fiber to the End User		30

State	DBA Name	Technology	Blocks
		VDSL	773
Oregon	TDS TELECOM	Asymmetric xDSL	
		ADSL2	370
Pennsylvania	TDS TELECOM	Asymmetric xDSL	364
		VDSL	49
		ADSL2	994
South Carolina	TDS TELECOM	Asymmetric xDSL	797
		VDSL	375
		ADSL2	2710
Tennessee	TDS TELECOM	Asymmetric xDSL	3087
10111100000	150 12220011	Optical Carrier/Fiber to the End User	1489
		VDSL	1414
Virginia		ADSL2	360
	TDS TELECOM	Asymmetric xDSL	600
		Optical Carrier/Fiber to the End User	13

State	DBA Name	Technology	Blocks
		VDSL	283
		ADSL2	491
Weekington	TDC TELECOM	Asymmetric xDSL	430
Washington	TDS TELECOM	Optical Carrier/Fiber to the End User	9
		VDSL	291
		ADSL2	6163
Wisconsin	TDS TELECOM	Asymmetric xDSL	5397
WISCOIISIII		Optical Carrier/Fiber to the End User	2277
		VDSL	3837
		Total	74796

Fixed Broadband Subscription

Fixed

ed Broadband Subscript	ions by State, Technology and End-user Type				
State	Technology	Census Tracts	Subscriptions		
State		Gensus madis	Consumer	Business / Govt	Total
Alabama	Asymmetric xDSL	200	7264	769	803

			Subscriptions		
State	Technology	Census Tracts	Consumer	Business / Govt	Total
	Optical Carrier/Fiber to the End User	<u> </u>	19	1	20
	Symmetric xDSL	5	0	26	26
Arizona	Asymmetric xDSL	41	899	238	1137
California	Asymmetric xDSL	5.3	1314	50	1364
Colorado	Asymmetric xDSL	61	4731	506	5237
	Asymmetric xDSL	58	3465	311	3776
Florida	Optical Carrier/Fiber to the End User	1	8	3	6
	Symmetric xDSL	13		52	52
	Asymmetric xDSL	248	18768	1398	20166
Georgia	Optical Carrier/Fiber to the End User	126	2981	76	3057
	Symmetric xDSL	44	0	203	203
ldaho	Asymmetric xDSL	33	887	59	946
Indiana	Asymmetric xDSL	381	11669	758	12427
iiiuidiid	Optical Carrier/Fiber to the End User	62	1872	53	1925

			Subscriptions			
State	Technology	Census Tracts	Consumer	Business / Govt	Total	
	Symmetric xDSL	33	d	85	85	
	Asymmetric xDSL	128	5500	299	5799	
Kentucky	Optical Carrier/Fiber to the End User	17	118	3	121	
	Symmetric xDSL	•	6	27	27	
	Asymmetric xDSL	259	8882	523	9405	
Maine	Optical Carrier/Fiber to the End User	18	52	3	55	
	Symmetric xDSL	25	0	41	41	
	Asymmetric xDSL	284	9380	519	9899	
Michigan	Optical Carrier/Fiber to the End User	15	60	7	67	
	Symmetric xDSL	4	0	8	8	
	Asymmetric xDSL	269	10308	1055	11363	
Minnesota	Optical Carrier/Fiber to the End User	46	1329	127	1456	
	Symmetric xDSL	43	g	123	123	
Mississippi	Asymmetric xDSL	×6	2218	300	2518	

State	Technology	Census Tracts	Subscriptions			
State	reclinology	Census Hacts	Consumer	Business / Govt	Total	
	Optical Carrier/Fiber to the End User		16	1	16	
	Asymmetric xDSL	222	6190	705	6895	
New Hampshire	Optical Carrier/Fiber to the End User	188	8405	245	8650	
	Symmetric xDSL	32	0	66	66	
	Asymmetric xDSL		5690	376	6066	
New York	Optical Carrier/Fiber to the End User	1	Ō	1	1	
Ohio	Asymmetric xDSL	98	3450	180	3630	
	Asymmetric xDSL	250	6558	526	7084	
Oklahoma	Optical Carrier/Fiber to the End User		352	5	357	
	Symmetric xDSL		0	21	21	
Oregon	Asymmetric xDSL	1	5	1	6	
Pennsylvania	Asymmetric xDSL	93	2101	136	2237	
South Carolina	Asymmetric xDSL	92	4161	365	4526	
South Carolina	Optical Carrier/Fiber to the End User	2	0	2	2	

Ctata	Tachmalamy	Census Tracts	Subscriptions			
State	Technology	Census Tracts	Consumer	Business / Govt	Total	
	Symmetric xDSL	5	o	13	13	
	Asymmetric xDSL	565	15267	1622	16889	
Tennessee	Optical Carrier/Fiber to the End User	422	18870	490	19360	
	Symmetric xDSL	120		384	384	
	Asymmetric xDSL	59	2323	200	2523	
Vermont	Optical Carrier/Fiber to the End User	1	0	2	2	
	Symmetric xDSL	5	0	12	12	
	Asymmetric xDSL	54	4368	433	4801	
Virginia	Optical Carrier/Fiber to the End User	15	54	â	60	
	Symmetric xDSL	1	0	47	17	
	Asymmetric xDSL	108	6165	280	6445	
Washington	Optical Carrier/Fiber to the End User	ı	26	5	26	
	Symmetric xDSL	5	6	12	12	
Wisconsin	Asymmetric xDSL	1060	43039	4391	47430	

	State	Technology		Subscriptions			
otate		recnnology	Census Tracts	Consumer	Business / Govt	Total	
	Optical Carrier/Fiber	to the End User	354	9986	169	10155	
	Symmetric xDSL		183		724	724	
	Total		6700	228745	19007	247752	
Fixed Broa	dband Subscriptions by Bandwidths	and End-user Type					
	Downstream Bandwidth (in Mbps)	U	Jpstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total	
0.256		0.128		20	0	20	
0.384		0.256		2	6	8	
0.512		0.256		39	1	40	
0.768		0.512		1360	118	1478	
1.000		0.512		9740	2	9742	
1.500		0.512		7034	1267	8301	
1.500		1.500			67	67	
2.000		2.000			19	19	
3.000		0.512		9624	722	10346	

Downstream Bandwidth (in Mbps)		Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
3.000	3.000		0	1139	1139
4.000	0.512		936	0	936
4.000	4.000			9	9
5.000	0.512		84344	4257	88601
6.000	0.512			40	40
6.000	6.000			386	386
7.000	0.768		187	14	201
7.000	0.864		9	5	14
10.000	0.768		600	1448	2048
10.000	2.000		4	135	139
12.000	12.000			175	175
15.000	0.768		63370	7079	70449
15.000	2.000		5188	212	5400
25.000	2.000		3	1180	1183
25.000	5.000		7377	6	7383

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
25.000	10.000	185	217	402
25.000	25.000	0	15	15
50.000	10.000	1115	6	1121
50.000	20.000	13593	216	13809
50.000	50.000		8	8
75.000	30.000		201	201
100.000	40.000	536	44	580
100.000	50.000	22620	0	22620
100.000	100.000	Ō	9	9
300.000	120.000	417	0	417
300.000	300.000		4	4
1000.000	400.000	442	0	442
То	tal	228745	19007	247752

Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type

Technology Downstream Bandwidth (in Mbps) Upstream Bandwidth (in Mbps) Consumer Business / Govt Total

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	0.256	0.128	20	0	20
	0.384	0.256	2	6	8
	0.512	0.256	39	1	40
	0.768	0.512	1358	118	1476
	1.000	0.512	9705	2	9707
	1.500	0.512	7003	1242	8245
	3.000	0.512	9618	713	10331
Asymmetric xDSL	4.000	0.512	885	0	885
	5.000	0.512	83653	4152	87805
	6.000	0.512	0	40	40
	7.000	0.768	187	14	201
	10.000	0.768	600	1448	2048
	15.000	0.768	63370	7079	70449
	25.000	2.000	3	1180	1183
	25.000	5.000	7044	5	7044

	Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
		50.000	10.000	1115	5	1120
		0.768	0.512	2	0	2
		1.000	0.512	35	0	35
		1.500	0.512	31	25	56
		2.000	2.000		4	4
		3.000	0.512		9	15
		4.000	0.512	51	0	51
	Optical Carrier/Fiber to the End User	4.000	4.000			1
	Optical Garrier liber to the Life Gaer	5.000	0.512	691	105	796
		7.000	0.864		5	14
		10.000	2.000		135	139
	15.000	2.000	5188	212	5400	
	25.000	5.000	333	6	339	
		25.000	10.000	185	217	402
		50.000	10.000			1

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	50.000	20.000	13593	216	13809
	50.000	50.000	0	3	3
	75.000	30.000	0	201	201
	100.000	40.000	536	44	580
	100.000	50.000	22620	0	22620
	100.000	100.000	0	5	5
	300.000	120.000	417	0	417
	300.000	300.000	0	4	4
	1000.000	400.000	442	0	442
	1.500	1.500	0	67	67
	2.000	2.000	0	15	15
Symmetric xDSL	3.000	3.000	0	1139	1139
Symmetric xDSL	4.000	4.000	0	8	8
	6.000	6.000	0	386	386
	12.000	12.000	0	175	175

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer Busin	ness / Govt	Total
	25.000	25.000		15	15
	50.000	50.000	0	5	5
	100.000	100.000		4	4
	Total		228745	19007	247752

Fixed Voice Subscription

VGE Lines and VoIP Subscriptions by State and End-user Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions	
Alabama	14909	11472	286		0
Arizona	3149	1919	1		0
California	3675	2621	1		0
Colorado	8546	6557	1		0
Florida	7039	5185	1649		0
Georgia	30638	24995	2683		0
Idaho	1563	1267	1		0
Indiana	19797	16238	1006		0

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Kentucky	9489	7939	451	
Maine	15156	12892	501	
Michigan	14700	12383	130	
Minnesota	20263	15610	2881	
Mississippi	4857	3586	3	1
New Hampshire	24153	19406	1012	1
New York	11299	8897	1	1
Ohio	5109	4328	1	1
Oklahoma	11541	9361	706	1
Oregon	91	73	1	1
Pennsylvania	3769	3236	1	1
South Carolina	7413	5977	359	1
Tennessee	61103	45760	4938	1
Vermont	5345	4088	361	1
Virginia	7899	6155	365	5

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions	
Washington	8535	7627	174		0
Wisconsin	101810	68095	11379		0
Total	401848	305667	28881		0
Fixed Voice Subscrip	tion (VGE Lines)				
VGE Lines Provided to Una	affiliated Providers by State				
	State		Wholesale	UNE-L	

State	Wholesale	UNE-L	
Alabama			0
Arizona	l	0	0
California	I		0
Colorado	I		0
Florida	2	1	0
Georgia	Į.	0	0
Idaho	Į.	0	0
Indiana	I	1	0
Kentucky	Į.	0	0

State	Wholesale	UNE-L
Maine		
Michigan		1
Minnesota		1
Mississippi		1
New Hampshire		1
New York		1
Ohio		1
Oklahoma		1 1
Oregon		1 1
Pennsylvania		1 1
South Carolina		1 1
Tennessee		1 1
Vermont		1 1
Virginia		1 1
Washington		3 0

	State			Wholesale				UNE-L		
	Wisconsin					5		0		
	Total					80		0		
VGE Lines Provided to End Us	sers by State, Bundl	e and Product Type								
		by B	Bundle			by Produc	et Type			
State	Total				Consum	er	Bus-Gov	∕t		
		Sold w/ Internet	Sold w/o Internet	& I	No PIC	& PIC	& No PIC	& PIC		
Alabama	14909	9132		5777	1359	10113	1259	2178		
Arizona	3149	1385		1764	689	1230	642	588		
California	3675	1459		2216	875	1746	459	595		
Colorado	8546	5989		2557	846	5711	559	1430		
Florida	7039	4395		2644	683	4502	1032	822		
Georgia	30638	25275		5363	2420	22575	2445	3198		
ldaho	1563	1041		522	163	1104	112	184		
Indiana	19797	15224		4573	1884	14354	1776	1783		
Kentucky	9489	6559		2930	605	7334	577	973		

		by Bundle				by Product Type				
State	Total	Sold w/ Internet			Consum	er	Bus-Go	vt		
		Sold w/ Internet	Sold w/o Internet		& No PIC	& PIC	& No PIC	& PIC		
Maine	15156	9983		5173	1323	11569	971	1293		
Michigan	14700	10733		3967	1141	11242	893	1424		
Minnesota	20263	14659		5604	1494	14116	1586	3067		
Mississippi	4857	2869		1988	514	3072	421	850		
New Hampshire	24153	16802		7351	2054	17352	1456	3291		
New York	11299	6511		4788	1044	7853	1025	1377		
Ohio	5109	3832		1277	350	3978	248	533		
Oklahoma	11541	8182		3359	1072	8289	539	1641		
Oregon	91	7		84	11	62	7	11		
Pennsylvania	3769	2365		1404	275	2961	189	344		
South Carolina	7413	4942		2471	674	5303	709	727		
Tennessee	61103	40911	2	0192	4795	40965	8784	6559		
Vermont	5345	2936		2409	716	3372	598	659		

Georgia

		by Bundle	dle			by Product Type				
State	Total	Sold w/ Internet				Consum	ner	Bus-	Govt	
		Sold W/ Internet		old w/o Interne	τ	& No PIC	& PIC	& No PIC	& PIC	
Virginia	7899		5591		2308	639	5516	710	1034	
Washington										
Wisconsin	101810		70096		31714	6135	61960	14162	19553	
Total	401848	2	77657		124191	32700	272967	41490	54691	
VGE Lines Provided to End	Users by State, Owners	ship and Last-mi	le Medium							
State	Total	b	y Ownership			by La	ı			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wir	reless	Copper	
Alabama	14909	14909	0	0	26	0		0	14883	
Arizona	3149	3149	0					0	3149	
California	3675	3675	0	0		•		0	3675	
Colorado	8546	8546	0	0				0	8546	
Florida	7039	7039	0	0		0		0	7036	

State	Total	by Ownership			by Last-mile Medium				
Olulo	. Ottai	Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	(Copper
Idaho	1563	1563	0	0	0	0		0	1563
Indiana	19797	19797	0	0	2180	0		0	17617
Kentucky	9489	9489	0	0	125	0		0	9364
Maine	15156	15156	0	0	67	0		0	15089
Michigan	14700	14700	0	0	81	0		0	14619
Minnesota	20263	20263	0	0	1794	0		0	18469
Mississippi	4857	4857	0	0	15			0	4842
New Hampshire	24153	24153	0	0	9748			0	14405
New York	11299	11299	0	0	0			0	11299
Ohio	5109	5109	0	0	0	0		0	5109
Oklahoma	11541	11541	0	0	341	0		0	11200
Oregon	91	91	0	0	0	0		0	91
Pennsylvania	3769	3769	0	0	0	0		0	3769
South Carolina	7413	7413	0	0	0			0	7413

State	Total	by Ownership				by Last-mile Medium				
State	Total	Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless		Copper	
Tennessee	61103	61103		0	22158	0		0	38945	
Vermont	5345	5345	0	0	0	0		0	5345	
Virginia	7899	7899		0	0	0		0	7899	
Washington	8535	8535	0	0	30	0		0	8505	
Wisconsin	101810	101810	0	0	11463	0		0	90347	
Total	401848	401848	0	0	51151	0		0	350697	

Fixed Voice Subscription (iVoIP)

Over-the-top VoIP Subscriptions by State and End-user Type

State	Total	Consumer	Business / Govt	
Alabama		1		0
Florida	35	1		35
Georgia	43	1		43
Indiana		1		0
Kentucky	1	1		1

State	Total	Consumer	Business / Govt
Maine			1
Michigan			1
Minnesota	14		14
New Hampshire			8
Oklahoma			1
South Carolina	•		1
Tennessee	33		38
Vermont	3		1
Virginia			1
Washington			ı
Wisconsin	152		152
Total	289	Ō	289

All other VoIP Subscriptions by State, End-user Type, Bundle and Last-mile Medium

			by End-user Type	by Bu	by Bundle			by Last-mile Medium			
State	Total	Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper		

State	Total		by End-user Type	by B	by Bundle			by Last-mile Medium				
State	Total	Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	C	opper		
Alabama	286		286	271	1	5 0	0		0	286		
Florida	1614		0 1614	1614	l		0		0	1614		
Georgia	2640		0 2640	2640	!	211	0		0	2429		
Indiana	1006		1.006	1006	!	116	0		0	890		
Kentucky	450		0 450	450	l		0		0	450		
Maine	501		501	501	l		0		0	501		
Michigan	130		0 130	130		0	0		0	130		
Minnesota	2867		2867	2858	İ	869	0		0	1998		
New Hampshire	1004		1004	1004		162	0		0	842		
Oklahoma	706		706	706		0	0		0	706		
South Carolina	359		0 359	359		0	0		0	359		
Tennessee	4905		0 4905	4878	2	7 1660	0		0	3245		
Vermont	358		358	358	!	0	0		0	358		
Virginia	365		365	365	!	82	0		0	283		

State	Total	by End-user Type		by Bundle		by Last-mile Medium				
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Co	pper
Washington	174	0	174	174	0	0	0		0	174
Wisconsin	11227	0	11227	10861	366	372	0		0 1	10855
Total	28592	0	28592	28175	417	3472	0		0 2	25120