



COMSEARCH
A CommScope Company

October 15, 2018

Re: AT&T Corp - MALIBU, CA
Call Sign: KB32
C-Band Transmit-Receive Earth Station
Job Number: 181015COMSGE14

**** Expedited Response Requested by October 29, 2018 ****

***** Revision Notice *****

Dear Frequency Coordinator:

This notice is being provided in accordance with Section 25.203(c) of the FCC Rules and Regulations. We are forwarding the attached revised coordination data on behalf of AT&T Corp - for modifications to their existing C-Band Transmit-Receive Earth Stations in MALIBU, CA.

AT&T plans to add a C-band transmit/receive earth station to their existing teleport. Please update your database with the attached information. This proposed antenna will be co-located with existing large diameter C-band transmit/receive earth stations operating under similar parameters.

We respectfully request that you examine this data for its interference potential with your system(s). In the event that your analysis identifies potential interference cases that were not previously reported, please contact us by October 29, 2018, as our client would like to expedite the filing of this earth station with the FCC.

If there are any questions concerning this coordination notice, please contact Comsearch.

Sincerely,

COMSEARCH

Gary K. Edwards
Senior Manager
gedwards@comsearch.com

Enclosure(s)

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5662 <http://www.comsearch.com>

Date: 10/15/2018
Job Number: 181015COMSGE14

Administrative Information

Status ENGINEER PROPOSAL
Call Sign KB32
Licensee Code P1175P
Licensee Name AT&T Corp -

Site Information

MALIBU, CA

Venue Name
Latitude (NAD 83) 34° 4' 51.0" N
Longitude (NAD 83) 118° 53' 47.3" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 335.28 m / 1100.0 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 52° W to 187° West Longitude
Azimuth Range 103.4° to 257.3°
Corresponding Elevation Angles 10.4° / 9.4°
Antenna Centerline (AGL) 5.49 m / 18.0 ft

Antenna Information

Receive - FCC32

Transmit - FCC32

Manufacturer		Gen Dynamics		Gen Dynamics	
Model		Satcom		Satcom	
Gain / Diameter		51.9 dBi / 11.1 m		55.6 dBi / 11.1 m	
3-dB / 15-dB Beamwidth		0.40° / 0.90°		0.30° / 0.60°	
Max Available RF Power	(dBW/4 kHz)			-2.7	
	(dBW/MHz)			21.3	
Maximum EIRP	(dBW/4 kHz)			52.9	
	(dBW/MHz)			76.9	
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%

Frequency Information

Receive 4.0 GHz

Transmit 6.1 GHz

Emission / Frequency Range (MHz)	54K6G7W - 72M0G7W / 3625.0 - 4200.0	54K6G7W - 72M0G7W / 5850.0 - 6425.0
Max Great Circle Coordination Distance	298.1 km / 185.2 mi	146.0 km / 90.7 mi
Precipitation Scatter Contour Radius	392.6 km / 243.9 mi	100.0 km / 62.1 mi

COMSEARCH**Earth Station Data Sheet**

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(703)726-5662 <http://www.comsearch.com>

Coordination Values		MALIBU, CA			
Licensee Name		AT&T Corp -			
Latitude (NAD 83)		34° 4' 51.0" N			
Longitude (NAD 83)		118° 53' 47.3" W			
Ground Elevation (AMSL)		335.28 m / 1100.0 ft			
Antenna Centerline (AGL)		5.49 m / 18.0 ft			
Antenna Model		Gen Dynamics 11.1 meter			
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz	
Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
Short Term		-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power		-2.7 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	5.78	102.67	-10.00	127.35	-10.00	100.00
5	6.51	98.43	-10.00	119.65	-10.00	100.00
10	7.61	93.44	-10.00	107.84	-10.00	100.00
15	7.33	88.45	-10.00	110.87	-10.00	100.00
20	8.10	83.45	-10.00	102.95	-10.00	100.00
25	7.62	78.46	-10.00	107.76	-10.00	100.00
30	7.15	73.47	-10.00	112.73	-10.00	100.00
35	7.24	68.48	-10.00	111.82	-10.00	100.00
40	7.30	63.49	-10.00	111.19	-10.00	100.00
45	6.61	58.52	-10.00	118.50	-10.00	100.00
50	5.73	53.59	-10.00	127.77	-10.00	100.00
55	6.68	48.55	-10.00	117.78	-10.00	100.00
60	4.49	43.77	-9.03	144.76	-9.03	100.00
65	5.75	38.68	-7.69	135.56	-7.69	100.00
70	6.51	33.65	-6.17	135.01	-6.17	100.00
75	6.49	28.69	-4.44	141.52	-4.44	100.00
80	6.15	23.81	-2.42	155.77	-2.42	100.00
85	5.69	19.02	0.02	177.39	0.02	100.00
90	6.58	13.97	3.37	185.42	3.37	100.00
95	6.52	9.29	7.80	209.84	7.80	100.00
100	5.80	5.75	13.00	255.86	13.00	117.20
105	6.63	4.09	16.71	272.48	16.71	123.24
110	7.08	7.24	10.51	219.32	10.51	100.00
115	8.40	10.34	6.63	182.54	6.63	100.00
120	8.91	13.85	3.47	155.14	3.47	100.00
125	7.75	18.34	0.41	150.45	0.41	100.00
130	8.90	21.19	-1.16	132.72	-1.16	100.00
135	8.66	24.81	-2.87	127.35	-2.87	100.00
140	8.66	28.08	-4.21	121.61	-4.21	100.00
145	9.74	30.27	-5.02	108.93	-5.02	100.00
150	10.15	32.62	-5.84	102.27	-5.84	100.00
155	11.37	33.88	-6.25	100.00	-6.25	100.00
160	13.86	33.44	-6.11	100.00	-6.11	100.00
165	15.13	33.58	-6.15	100.00	-6.15	100.00
170	16.33	33.34	-6.07	100.00	-6.07	100.00
175	13.91	36.29	-6.99	100.00	-6.99	100.00
180	11.66	38.73	-7.70	100.00	-7.70	100.00
185	11.05	39.13	-7.81	100.00	-7.81	100.00

COMSEARCH**Earth Station Data Sheet**

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5662 <http://www.comsearch.com>

Coordination Values**MALIBU, CA**

Licensee Name	AT&T Corp -				
Latitude (NAD 83)	34° 4' 51.0" N				
Longitude (NAD 83)	118° 53' 47.3" W				
Ground Elevation (AMSL)	335.28 m / 1100.0 ft				
Antenna Centerline (AGL)	5.49 m / 18.0 ft				
Antenna Model	Gen Dynamics 11.1 meter				
Antenna Mode	Receive 4.0 GHz			Transmit 6.1 GHz	
Interference Objectives: Long Term	-156.0 dBW/MHz	20%		-154.0 dBW/4 kHz	20%
Short Term	-146.0 dBW/MHz	0.01%		-131.0 dBW/4 kHz	0.0025%
Max Available RF Power				-2.7 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	13.29	36.34	-7.01	100.00	-7.01	100.00
195	12.00	36.59	-7.08	100.00	-7.08	100.00
200	9.60	37.36	-7.31	100.68	-7.31	100.00
205	9.43	35.56	-6.77	104.29	-6.77	100.00
210	10.12	32.65	-5.85	102.48	-5.85	100.00
215	9.66	30.32	-5.04	109.45	-5.04	100.00
220	9.43	27.51	-3.99	115.94	-3.99	100.00
225	10.23	23.70	-2.37	116.45	-2.37	100.00
230	7.59	22.08	-1.60	141.95	-1.60	100.00
235	8.05	18.14	0.53	147.51	0.53	100.00
240	8.13	14.35	3.08	161.27	3.08	100.00
245	5.86	11.91	5.10	204.56	5.10	100.00
250	4.84	8.58	8.66	238.28	8.66	109.93
255	4.33	5.58	13.34	284.63	13.34	133.95
260	3.14	6.83	11.14	298.13	11.14	145.62
265	2.15	10.56	6.40	288.23	6.40	145.99
270	2.68	14.34	3.08	247.79	3.08	124.13
275	2.52	18.95	0.06	231.78	0.06	115.60
280	2.71	23.61	-2.33	213.60	-2.33	103.31
285	2.93	28.38	-4.33	201.29	-4.33	100.00
290	3.30	33.20	-6.03	185.04	-6.03	100.00
295	2.75	38.19	-7.55	189.39	-7.55	100.00
300	4.48	42.92	-8.82	145.92	-8.82	100.00
305	4.80	47.86	-10.00	136.24	-10.00	100.00
310	5.16	52.82	-10.00	133.33	-10.00	100.00
315	5.49	57.78	-10.00	130.07	-10.00	100.00
320	6.64	62.73	-10.00	118.17	-10.00	100.00
325	7.28	67.71	-10.00	111.39	-10.00	100.00
330	7.11	72.71	-10.00	113.11	-10.00	100.00
335	6.12	77.72	-10.00	123.92	-10.00	100.00
340	6.53	82.70	-10.00	119.45	-10.00	100.00
345	7.27	87.70	-10.00	111.50	-10.00	100.00
350	7.54	92.69	-10.00	108.58	-10.00	100.00
355	6.60	97.69	-10.00	118.64	-10.00	100.00



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October 15, 2018

Re: AT&T Corp -
MALIBU, CA
Call Sign: KB32
C-Band Transmit-Receive Earth Station
Job Number: 181015COMSGE15

**** Expedited Response Requested by October 29, 2018 ****

***** Revision Notice *****

Dear Frequency Coordinator:

This notice is being provided in accordance with Section 25.203(c) of the FCC Rules and Regulations. We are forwarding the attached revised coordination data on behalf of AT&T Corp - for modifications to their existing C-Band Transmit-Receive Earth Stations in MALIBU, CA.

AT&T plans to add a C-band transmit/receive earth station to their existing teleport. Please update your database with the attached information. This proposed antenna will be co-located with existing large diameter C-band transmit/receive earth stations operating under similar parameters.

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Date: 10/15/2018
Job Number: 181015COMSGE15

Administrative Information

Status ENGINEER PROPOSAL
Call Sign KB32
Licensee Code P1175P
Licensee Name AT&T Corp -

Site Information**MALIBU, CA**

Venue Name
Latitude (NAD 83) 34° 4' 51.0" N
Longitude (NAD 83) 118° 53' 47.3" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 335.28 m / 1100.0 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 52° W to 187° West Longitude
Azimuth Range 103.4° to 257.3°
Corresponding Elevation Angles 10.4° / 9.4°
Antenna Centerline (AGL) 5.49 m / 18.0 ft

Antenna Information**Receive - FCC32****Transmit - FCC32**

Manufacturer		Gen Dynamics		Gen Dynamics	
Model		Satcom		Satcom	
Gain / Diameter		53.5 dBi / 13.1 m		57.3 dBi / 13.1 m	
3-dB / 15-dB Beamwidth		0.38° / 0.76°		0.26° / 0.52°	
Max Available RF Power	(dBW/4 kHz)			-2.7	
	(dBW/MHz)			21.3	
Maximum EIRP	(dBW/4 kHz)			54.6	
	(dBW/MHz)			78.6	
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%

Frequency Information**Receive 4.0 GHz****Transmit 6.1 GHz**

Emission / Frequency Range (MHz)	54K6G7W - 72M0G7W / 3700.0 - 4200.0	54K6G7W - 72M0G7W / 5925.0 - 6425.0
Max Great Circle Coordination Distance	298.1 km / 185.2 mi	146.0 km / 90.7 mi
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Antenna Model	Gen Dynamics 13.1 meter				
Antenna Mode	Receive 4.0 GHz			Transmit 6.1 GHz	
Interference Objectives: Long Term	-156.0 dBW/MHz	20%		-154.0 dBW/4 kHz	20%
Short Term	-146.0 dBW/MHz	0.01%		-131.0 dBW/4 kHz	0.0025%
Max Available RF Power				-2.7 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	5.78	102.67	-10.00	127.35	-10.00	100.00
5	6.51	98.43	-10.00	119.65	-10.00	100.00
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15	7.33	88.45	-10.00	110.87	-10.00	100.00
20	8.10	83.45	-10.00	102.95	-10.00	100.00
25	7.62	78.46	-10.00	107.76	-10.00	100.00
30	7.15	73.47	-10.00	112.73	-10.00	100.00
35	7.24	68.48	-10.00	111.82	-10.00	100.00
40	7.30	63.49	-10.00	111.19	-10.00	100.00
45	6.61	58.52	-10.00	118.50	-10.00	100.00
50	5.73	53.59	-10.00	127.77	-10.00	100.00
55	6.68	48.55	-10.00	117.78	-10.00	100.00
60	4.49	43.77	-9.03	144.76	-9.03	100.00
65	5.75	38.68	-7.69	135.56	-7.69	100.00
70	6.51	33.65	-6.17	135.01	-6.17	100.00
75	6.49	28.69	-4.44	141.52	-4.44	100.00
80	6.15	23.81	-2.42	155.77	-2.42	100.00
85	5.69	19.02	0.02	177.39	0.02	100.00
90	6.58	13.97	3.37	185.42	3.37	100.00
95	6.52	9.29	7.80	209.84	7.80	100.00
100	5.80	5.75	13.00	255.86	13.00	117.20
105	6.63	4.09	16.71	272.48	16.71	123.24
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120	8.91	13.85	3.47	155.14	3.47	100.00
125	7.75	18.34	0.41	150.45	0.41	100.00
130	8.90	21.19	-1.16	132.72	-1.16	100.00
135	8.66	24.81	-2.87	127.35	-2.87	100.00
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150	10.15	32.62	-5.84	102.27	-5.84	100.00
155	11.37	33.88	-6.25	100.00	-6.25	100.00
160	13.86	33.44	-6.11	100.00	-6.11	100.00
165	15.13	33.58	-6.15	100.00	-6.15	100.00
170	16.33	33.34	-6.07	100.00	-6.07	100.00
175	13.91	36.29	-6.99	100.00	-6.99	100.00
180	11.66	38.73	-7.70	100.00	-7.70	100.00
185	11.05	39.13	-7.81	100.00	-7.81	100.00

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210	10.12	32.65	-5.85	102.48	-5.85	100.00
215	9.66	30.32	-5.04	109.45	-5.04	100.00
220	9.43	27.51	-3.99	115.94	-3.99	100.00
225	10.23	23.70	-2.37	116.45	-2.37	100.00
230	7.59	22.08	-1.60	141.95	-1.60	100.00
235	8.05	18.14	0.53	147.51	0.53	100.00
240	8.13	14.35	3.08	161.27	3.08	100.00
245	5.86	11.91	5.10	204.56	5.10	100.00
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255	4.33	5.58	13.34	284.63	13.34	133.95
260	3.14	6.83	11.14	298.13	11.14	145.62
265	2.15	10.56	6.40	288.23	6.40	145.99
270	2.68	14.34	3.08	247.79	3.08	124.13
275	2.52	18.95	0.06	231.78	0.06	115.60
280	2.71	23.61	-2.33	213.60	-2.33	103.31
285	2.93	28.38	-4.33	201.29	-4.33	100.00
290	3.30	33.20	-6.03	185.04	-6.03	100.00
295	2.75	38.19	-7.55	189.39	-7.55	100.00
300	4.48	42.92	-8.82	145.92	-8.82	100.00
305	4.80	47.86	-10.00	136.24	-10.00	100.00
310	5.16	52.82	-10.00	133.33	-10.00	100.00
315	5.49	57.78	-10.00	130.07	-10.00	100.00
320	6.64	62.73	-10.00	118.17	-10.00	100.00
325	7.28	67.71	-10.00	111.39	-10.00	100.00
330	7.11	72.71	-10.00	113.11	-10.00	100.00
335	6.12	77.72	-10.00	123.92	-10.00	100.00
340	6.53	82.70	-10.00	119.45	-10.00	100.00
345	7.27	87.70	-10.00	111.50	-10.00	100.00
350	7.54	92.69	-10.00	108.58	-10.00	100.00
355	6.60	97.69	-10.00	118.64	-10.00	100.00