



COMSEARCH[®]
A CommScope Company

October 15, 2018

Re: AT&T Corp
MALIBU, CA
Call Sign: KA273
C-Band Transmit-Receive Earth Station
Job Number: 181015COMSGE16

**** 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 - Extended C-Band Sites for modifications to their existing C-Band Transmit-Receive Earth Station in MALIBU, CA.

The coordination notice is being circulated to the owners (or their protection agents) of all existing or proposed terrestrial facilities operating in a shared frequency band within the coordination contours of the proposed station(s). Please update your database with the attached information.

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.

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: 181015COMSGE16

Administrative Information

Status ENGINEER PROPOSAL
Call Sign KA273
Licensee Code P1175P
Licensee Name AT&T Corp -

Site Information

MALIBU, CA

Venue Name
Latitude (NAD 83) 34° 4' 50.3" N
Longitude (NAD 83) 118° 53' 49.7" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 330.71 m / 1085.0 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 70° W to 187° West Longitude
Azimuth Range 116.1° to 257.3°
Corresponding Elevation Angles 25.1° / 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	286.4 km / 177.9 mi	127.9 km / 79.5 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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Coordination Values**MALIBU, CA**

Licensee Name	AT&T Corp -				
Latitude (NAD 83)	34° 4' 50.3" N				
Longitude (NAD 83)	118° 53' 49.7" W				
Ground Elevation (AMSL)	330.71 m / 1085.0 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	5.76	102.67	-10.00	127.52	-10.00	100.00
5	6.21	107.67	-10.00	122.90	-10.00	100.00
10	7.24	105.26	-10.00	111.72	-10.00	100.00
15	7.25	100.52	-10.00	111.62	-10.00	100.00
20	7.50	95.77	-10.00	108.98	-10.00	100.00
25	8.10	91.01	-10.00	102.91	-10.00	100.00
30	7.62	86.24	-10.00	107.76	-10.00	100.00
35	7.42	81.48	-10.00	109.82	-10.00	100.00
40	7.30	76.74	-10.00	111.09	-10.00	100.00
45	6.76	72.05	-10.00	116.92	-10.00	100.00
50	5.78	67.48	-10.00	127.32	-10.00	100.00
55	6.01	62.79	-10.00	125.15	-10.00	100.00
60	4.40	58.52	-10.00	141.84	-10.00	100.00
65	5.16	53.78	-10.00	133.26	-10.00	100.00
70	5.80	49.09	-10.00	127.13	-10.00	100.00
75	6.46	44.40	-9.19	123.39	-9.19	100.00
80	5.89	40.24	-8.12	133.72	-8.12	100.00
85	6.12	35.90	-6.88	135.12	-6.88	100.00
90	5.39	32.26	-5.72	148.07	-5.72	100.00
95	6.11	28.08	-4.21	147.29	-4.21	100.00
100	7.77	23.47	-2.26	136.94	-2.26	100.00
105	9.33	19.19	-0.08	133.87	-0.08	100.00
110	10.96	15.37	2.33	132.86	2.33	100.00
115	12.55	12.61	4.48	132.64	4.48	100.00
120	13.09	12.65	4.44	128.94	4.44	100.00
125	14.50	13.86	3.46	115.05	3.46	100.00
130	15.78	16.35	1.66	100.00	1.66	100.00
135	16.41	19.13	-0.04	100.00	-0.04	100.00
140	17.31	21.43	-1.27	100.00	-1.27	100.00
145	18.02	23.54	-2.30	100.00	-2.30	100.00
150	17.39	26.46	-3.56	100.00	-3.56	100.00
155	13.58	31.92	-5.60	100.00	-5.60	100.00
160	14.76	32.61	-5.83	100.00	-5.83	100.00
165	14.18	34.50	-6.44	100.00	-6.44	100.00
170	12.80	36.81	-7.15	100.00	-7.15	100.00
175	12.95	37.25	-7.28	100.00	-7.28	100.00
180	15.36	35.03	-6.61	100.00	-6.61	100.00
185	15.28	34.92	-6.58	100.00	-6.58	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' 50.3" N				
Longitude (NAD 83)	118° 53' 49.7" W				
Ground Elevation (AMSL)	330.71 m / 1085.0 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	14.45	35.19	-6.66	100.00	-6.66	100.00
195	12.15	36.45	-7.04	100.00	-7.04	100.00
200	11.40	35.72	-6.82	100.00	-6.82	100.00
205	10.37	34.75	-6.52	100.00	-6.52	100.00
210	10.06	32.69	-5.86	102.79	-5.86	100.00
215	10.29	29.84	-4.87	105.33	-4.87	100.00
220	12.75	25.00	-2.95	100.00	-2.95	100.00
225	14.03	20.92	-1.02	100.00	-1.02	100.00
230	12.21	18.90	0.09	113.91	0.09	100.00
235	9.45	17.22	1.10	137.11	1.10	100.00
240	8.27	14.26	3.15	160.15	3.15	100.00
245	8.22	10.46	6.51	183.79	6.51	100.00
250	7.46	7.00	10.87	216.47	10.87	100.00
255	7.36	3.09	19.77	286.36	19.77	127.88
260	6.62	3.88	17.28	277.58	17.28	125.61
265	5.57	8.60	8.64	227.78	8.64	102.18
270	3.48	13.99	3.35	229.28	3.35	110.39
275	2.59	18.93	0.07	230.23	0.07	114.41
280	2.73	23.61	-2.33	213.20	-2.33	102.97
285	3.01	28.37	-4.32	199.77	-4.32	100.00
290	3.58	33.15	-6.01	178.91	-6.01	100.00
295	2.95	38.16	-7.54	185.03	-7.54	100.00
300	4.42	42.93	-8.82	146.79	-8.82	100.00
305	4.96	47.85	-10.00	134.12	-10.00	100.00
310	5.41	52.80	-10.00	130.89	-10.00	100.00
315	5.23	57.79	-10.00	132.65	-10.00	100.00
320	6.51	62.73	-10.00	119.63	-10.00	100.00
325	7.28	67.71	-10.00	111.38	-10.00	100.00
330	7.89	72.70	-10.00	104.91	-10.00	100.00
335	6.67	77.71	-10.00	117.85	-10.00	100.00
340	6.19	82.71	-10.00	123.17	-10.00	100.00
345	6.99	87.70	-10.00	114.45	-10.00	100.00
350	7.39	92.69	-10.00	110.18	-10.00	100.00
355	7.13	97.69	-10.00	112.91	-10.00	100.00



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October 15, 2018

Re: AT&T Corp -
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Call Sign: KA273
C-Band Transmit-Receive Earth Station
Job Number: 181015COMSGE17

**** 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)

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Date: 10/15/2018
Job Number: 181015COMSGE17

Administrative Information

Status ENGINEER PROPOSAL
Call Sign KA273
Licensee Code P1175P
Licensee Name AT&T Corp -

Site Information**MALIBU, CA**

Venue Name
Latitude (NAD 83) 34° 4' 50.3" N
Longitude (NAD 83) 118° 53' 49.7" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 330.71 m / 1085.0 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 70° W to 187° West Longitude
Azimuth Range 116.1° to 257.3°
Corresponding Elevation Angles 25.1° / 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 / 3625.0 - 4200.0	54K6G7W - 72M0G7W / 5850.0 - 6425.0
Max Great Circle Coordination Distance	286.4 km / 177.9 mi	127.9 km / 79.5 mi
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Antenna Centerline (AGL)		5.49 m / 18.0 ft			
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	5.76	102.67	-10.00	127.52	-10.00	100.00
5	6.21	107.67	-10.00	122.90	-10.00	100.00
10	7.24	105.26	-10.00	111.72	-10.00	100.00
15	7.25	100.52	-10.00	111.62	-10.00	100.00
20	7.50	95.77	-10.00	108.98	-10.00	100.00
25	8.10	91.01	-10.00	102.91	-10.00	100.00
30	7.62	86.24	-10.00	107.76	-10.00	100.00
35	7.42	81.48	-10.00	109.82	-10.00	100.00
40	7.30	76.74	-10.00	111.09	-10.00	100.00
45	6.76	72.05	-10.00	116.92	-10.00	100.00
50	5.78	67.48	-10.00	127.32	-10.00	100.00
55	6.01	62.79	-10.00	125.15	-10.00	100.00
60	4.40	58.52	-10.00	141.84	-10.00	100.00
65	5.16	53.78	-10.00	133.26	-10.00	100.00
70	5.80	49.09	-10.00	127.13	-10.00	100.00
75	6.46	44.40	-9.19	123.39	-9.19	100.00
80	5.89	40.24	-8.12	133.72	-8.12	100.00
85	6.12	35.90	-6.88	135.12	-6.88	100.00
90	5.39	32.26	-5.72	148.07	-5.72	100.00
95	6.11	28.08	-4.21	147.29	-4.21	100.00
100	7.77	23.47	-2.26	136.94	-2.26	100.00
105	9.33	19.19	-0.08	133.87	-0.08	100.00
110	10.96	15.37	2.33	132.86	2.33	100.00
115	12.55	12.61	4.48	132.64	4.48	100.00
120	13.09	12.65	4.44	128.94	4.44	100.00
125	14.50	13.86	3.46	115.05	3.46	100.00
130	15.78	16.35	1.66	100.00	1.66	100.00
135	16.41	19.13	-0.04	100.00	-0.04	100.00
140	17.31	21.43	-1.27	100.00	-1.27	100.00
145	18.02	23.54	-2.30	100.00	-2.30	100.00
150	17.39	26.46	-3.56	100.00	-3.56	100.00
155	13.58	31.92	-5.60	100.00	-5.60	100.00
160	14.76	32.61	-5.83	100.00	-5.83	100.00
165	14.18	34.50	-6.44	100.00	-6.44	100.00
170	12.80	36.81	-7.15	100.00	-7.15	100.00
175	12.95	37.25	-7.28	100.00	-7.28	100.00
180	15.36	35.03	-6.61	100.00	-6.61	100.00
185	15.28	34.92	-6.58	100.00	-6.58	100.00

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195	12.15	36.45	-7.04	100.00	-7.04	100.00
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205	10.37	34.75	-6.52	100.00	-6.52	100.00
210	10.06	32.69	-5.86	102.79	-5.86	100.00
215	10.29	29.84	-4.87	105.33	-4.87	100.00
220	12.75	25.00	-2.95	100.00	-2.95	100.00
225	14.03	20.92	-1.02	100.00	-1.02	100.00
230	12.21	18.90	0.09	113.91	0.09	100.00
235	9.45	17.22	1.10	137.11	1.10	100.00
240	8.27	14.26	3.15	160.15	3.15	100.00
245	8.22	10.46	6.51	183.79	6.51	100.00
250	7.46	7.00	10.87	216.47	10.87	100.00
255	7.36	3.09	19.77	286.36	19.77	127.88
260	6.62	3.88	17.28	277.58	17.28	125.61
265	5.57	8.60	8.64	227.78	8.64	102.18
270	3.48	13.99	3.35	229.28	3.35	110.39
275	2.59	18.93	0.07	230.23	0.07	114.41
280	2.73	23.61	-2.33	213.20	-2.33	102.97
285	3.01	28.37	-4.32	199.77	-4.32	100.00
290	3.58	33.15	-6.01	178.91	-6.01	100.00
295	2.95	38.16	-7.54	185.03	-7.54	100.00
300	4.42	42.93	-8.82	146.79	-8.82	100.00
305	4.96	47.85	-10.00	134.12	-10.00	100.00
310	5.41	52.80	-10.00	130.89	-10.00	100.00
315	5.23	57.79	-10.00	132.65	-10.00	100.00
320	6.51	62.73	-10.00	119.63	-10.00	100.00
325	7.28	67.71	-10.00	111.38	-10.00	100.00
330	7.89	72.70	-10.00	104.91	-10.00	100.00
335	6.67	77.71	-10.00	117.85	-10.00	100.00
340	6.19	82.71	-10.00	123.17	-10.00	100.00
345	6.99	87.70	-10.00	114.45	-10.00	100.00
350	7.39	92.69	-10.00	110.18	-10.00	100.00
355	7.13	97.69	-10.00	112.91	-10.00	100.00