



COMSEARCH[®]

A CommScope Company

October 15, 2018

Re: AT&T Corp -
MALIBU, CA
Call Sign: KA91
C-Band Transmit-Receive Earth Station
Job Number: 181015COMSGE08

**** 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: 181015COMSGE08

Administrative Information

Status ENGINEER PROPOSAL
Call Sign KA91
Licensee Code P1175P
Licensee Name AT&T Corp -

Site Information**MALIBU, CA**

Venue Name
Latitude (NAD 83) 34° 4' 49.7" N
Longitude (NAD 83) 118° 53' 47.2" 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 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	284.0 km / 176.4 mi	139.6 km / 86.7 mi
Precipitation Scatter Contour Radius	392.6 km / 243.9 mi	100.0 km / 62.1 mi

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Coordination Values**MALIBU, CA**

Licensee Name	AT&T Corp -		
Latitude (NAD 83)	34° 4' 49.7" N		
Longitude (NAD 83)	118° 53' 47.2" 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
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz
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	5.70	102.67	-10.00	128.05	-10.00	100.00
5	6.58	98.43	-10.00	118.82	-10.00	100.00
10	7.19	93.44	-10.00	112.27	-10.00	100.00
15	6.99	88.45	-10.00	114.49	-10.00	100.00
20	8.22	83.45	-10.00	101.88	-10.00	100.00
25	7.79	78.46	-10.00	105.95	-10.00	100.00
30	7.12	73.47	-10.00	113.06	-10.00	100.00
35	7.79	68.47	-10.00	105.94	-10.00	100.00
40	7.23	63.49	-10.00	111.84	-10.00	100.00
45	6.38	58.53	-10.00	121.01	-10.00	100.00
50	6.03	53.57	-10.00	124.93	-10.00	100.00
55	6.18	48.58	-10.00	123.24	-10.00	100.00
60	4.88	43.73	-9.02	139.23	-9.02	100.00
65	5.84	38.68	-7.69	134.74	-7.69	100.00
70	6.27	33.67	-6.18	136.35	-6.18	100.00
75	6.60	28.68	-4.44	140.17	-4.44	100.00
80	5.96	23.84	-2.43	158.21	-2.43	100.00
85	7.04	18.74	0.18	158.21	0.18	100.00
90	6.82	13.91	3.42	182.57	3.42	100.00
95	6.40	9.34	7.74	211.03	7.74	100.00
100	6.33	5.34	13.81	253.83	13.81	114.99
105	7.70	3.12	19.64	279.38	19.64	123.75
110	10.05	5.42	13.64	205.26	13.64	100.00
115	10.21	9.20	7.90	171.68	7.90	100.00
120	8.91	13.85	3.47	155.11	3.47	100.00
125	9.47	17.20	1.11	136.97	1.11	100.00
130	10.08	20.38	-0.73	124.71	-0.73	100.00
135	9.81	24.00	-2.50	119.04	-2.50	100.00
140	9.82	27.22	-3.87	113.06	-3.87	100.00
145	11.06	29.23	-4.65	100.96	-4.65	100.00
150	12.16	30.95	-5.26	100.00	-5.26	100.00
155	11.67	33.62	-6.16	100.00	-6.16	100.00
160	13.02	34.23	-6.36	100.00	-6.36	100.00
165	16.00	32.75	-5.88	100.00	-5.88	100.00
170	17.89	31.81	-5.56	100.00	-5.56	100.00
175	21.20	29.03	-4.57	100.00	-4.57	100.00
180	21.23	29.15	-4.62	100.00	-4.62	100.00
185	19.03	31.18	-5.35	100.00	-5.35	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' 49.7" N				
Longitude (NAD 83)	118° 53' 47.2" 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	18.23	31.47	-5.45	100.00	-5.45	100.00
195	17.30	31.49	-5.45	100.00	-5.45	100.00
200	14.57	32.78	-5.89	100.00	-5.89	100.00
205	15.56	30.14	-4.98	100.00	-4.98	100.00
210	15.36	28.22	-4.26	100.00	-4.26	100.00
215	14.45	26.51	-3.58	100.00	-3.58	100.00
220	12.58	25.13	-3.01	100.00	-3.01	100.00
225	10.46	23.53	-2.29	115.17	-2.29	100.00
230	11.43	19.45	-0.22	117.75	-0.22	100.00
235	9.44	17.23	1.09	137.19	1.09	100.00
240	11.49	12.18	4.86	140.60	4.86	100.00
245	10.72	8.89	8.28	169.65	8.28	100.00
250	8.82	6.17	12.25	209.17	12.25	100.00
255	6.18	3.97	17.03	283.21	17.03	129.43
260	4.07	5.98	12.59	283.96	12.59	134.40
265	2.50	10.33	6.65	279.71	6.65	139.62
270	2.68	14.34	3.08	247.73	3.08	124.09
275	2.72	18.88	0.10	227.14	0.10	112.00
280	2.98	23.54	-2.30	207.92	-2.30	100.00
285	2.83	28.40	-4.33	203.30	-4.33	100.00
290	3.08	33.23	-6.04	189.62	-6.04	100.00
295	2.56	38.22	-7.56	193.59	-7.56	100.00
300	4.25	42.95	-8.82	149.41	-8.82	100.00
305	4.68	47.87	-10.00	137.83	-10.00	100.00
310	5.43	52.80	-10.00	130.69	-10.00	100.00
315	5.69	57.77	-10.00	128.23	-10.00	100.00
320	6.62	62.73	-10.00	118.39	-10.00	100.00
325	7.05	67.71	-10.00	113.78	-10.00	100.00
330	7.55	72.70	-10.00	108.46	-10.00	100.00
335	6.34	77.71	-10.00	121.54	-10.00	100.00
340	6.46	82.70	-10.00	120.12	-10.00	100.00
345	7.41	87.70	-10.00	109.96	-10.00	100.00
350	7.19	92.69	-10.00	112.29	-10.00	100.00
355	6.65	97.69	-10.00	118.09	-10.00	100.00



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October 15, 2018

Re: AT&T Corp
MALIBU, CA
Call Sign: KA91
C-Band Transmit-Receive Earth Station
Job Number: 181015COMSGE07

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

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Dear Frequency Coordinator:

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Date: 10/15/2018
Job Number: 181015COMSGE07

Administrative Information

Status ENGINEER PROPOSAL
Call Sign KA91
Licensee Code P1175P
Licensee Name AT&T Corp -

Site Information

MALIBU, CA
Venue Name
Latitude (NAD 83) 34° 4' 49.7" N
Longitude (NAD 83) 118° 53' 47.2" 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 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

Manufacturer
Model
Gain / Diameter
3-dB / 15-dB Beamwidth

Receive - FCC32

Gen Dynamics
Satcom
53.5 dBi / 13.1 m
0.38° / 0.76°

Transmit - FCC32

Gen Dynamics
Satcom
57.3 dBi / 13.1 m
0.26° / 0.52°

Max Available RF Power (dBW/4 kHz)
(dBW/MHz)

-2.7
21.3

Maximum EIRP (dBW/4 kHz)
(dBW/MHz)

54.6
78.6

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

-154.0 dBW/4 kHz 20%
-131.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 4.0 GHz

54K6G7W - 72M0G7W / 3625.0 - 4200.0

Transmit 6.1 GHz

54K6G7W - 72M0G7W / 5850.0 - 6425.0

Max Great Circle Coordination Distance
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284.0 km / 176.4 mi
392.6 km / 243.9 mi

139.6 km / 86.7 mi
100.0 km / 62.1 mi

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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 (°)	Receive 4.0 GHz				Transmit 6.1 GHz	
	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	5.70	102.67	-10.00	128.05	-10.00	100.00
5	6.58	98.43	-10.00	118.82	-10.00	100.00
10	7.19	93.44	-10.00	112.27	-10.00	100.00
15	6.99	88.45	-10.00	114.49	-10.00	100.00
20	8.22	83.45	-10.00	101.88	-10.00	100.00
25	7.79	78.46	-10.00	105.95	-10.00	100.00
30	7.12	73.47	-10.00	113.06	-10.00	100.00
35	7.79	68.47	-10.00	105.94	-10.00	100.00
40	7.23	63.49	-10.00	111.84	-10.00	100.00
45	6.38	58.53	-10.00	121.01	-10.00	100.00
50	6.03	53.57	-10.00	124.93	-10.00	100.00
55	6.18	48.58	-10.00	123.24	-10.00	100.00
60	4.88	43.73	-9.02	139.23	-9.02	100.00
65	5.84	38.68	-7.69	134.74	-7.69	100.00
70	6.27	33.67	-6.18	136.35	-6.18	100.00
75	6.60	28.68	-4.44	140.17	-4.44	100.00
80	5.96	23.84	-2.43	158.21	-2.43	100.00
85	7.04	18.74	0.18	158.21	0.18	100.00
90	6.82	13.91	3.42	182.57	3.42	100.00
95	6.40	9.34	7.74	211.03	7.74	100.00
100	6.33	5.34	13.81	253.83	13.81	114.99
105	7.70	3.12	19.64	279.38	19.64	123.75
110	10.05	5.42	13.64	205.26	13.64	100.00
115	10.21	9.20	7.90	171.68	7.90	100.00
120	8.91	13.85	3.47	155.11	3.47	100.00
125	9.47	17.20	1.11	136.97	1.11	100.00
130	10.08	20.38	-0.73	124.71	-0.73	100.00
135	9.81	24.00	-2.50	119.04	-2.50	100.00
140	9.82	27.22	-3.87	113.06	-3.87	100.00
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150	12.16	30.95	-5.26	100.00	-5.26	100.00
155	11.67	33.62	-6.16	100.00	-6.16	100.00
160	13.02	34.23	-6.36	100.00	-6.36	100.00
165	16.00	32.75	-5.88	100.00	-5.88	100.00
170	17.89	31.81	-5.56	100.00	-5.56	100.00
175	21.20	29.03	-4.57	100.00	-4.57	100.00
180	21.23	29.15	-4.62	100.00	-4.62	100.00
185	19.03	31.18	-5.35	100.00	-5.35	100.00

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Max Available RF Power			-2.7 (dBW/4 kHz)	

Azimuth (°)	Receive 4.0 GHz				Transmit 6.1 GHz	
	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
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205	15.56	30.14	-4.98	100.00	-4.98	100.00
210	15.36	28.22	-4.26	100.00	-4.26	100.00
215	14.45	26.51	-3.58	100.00	-3.58	100.00
220	12.58	25.13	-3.01	100.00	-3.01	100.00
225	10.46	23.53	-2.29	115.17	-2.29	100.00
230	11.43	19.45	-0.22	117.75	-0.22	100.00
235	9.44	17.23	1.09	137.19	1.09	100.00
240	11.49	12.18	4.86	140.60	4.86	100.00
245	10.72	8.89	8.28	169.65	8.28	100.00
250	8.82	6.17	12.25	209.17	12.25	100.00
255	6.18	3.97	17.03	283.21	17.03	129.43
260	4.07	5.98	12.59	283.96	12.59	134.40
265	2.50	10.33	6.65	279.71	6.65	139.62
270	2.68	14.34	3.08	247.73	3.08	124.09
275	2.72	18.88	0.10	227.14	0.10	112.00
280	2.98	23.54	-2.30	207.92	-2.30	100.00
285	2.83	28.40	-4.33	203.30	-4.33	100.00
290	3.08	33.23	-6.04	189.62	-6.04	100.00
295	2.56	38.22	-7.56	193.59	-7.56	100.00
300	4.25	42.95	-8.82	149.41	-8.82	100.00
305	4.68	47.87	-10.00	137.83	-10.00	100.00
310	5.43	52.80	-10.00	130.69	-10.00	100.00
315	5.69	57.77	-10.00	128.23	-10.00	100.00
320	6.62	62.73	-10.00	118.39	-10.00	100.00
325	7.05	67.71	-10.00	113.78	-10.00	100.00
330	7.55	72.70	-10.00	108.46	-10.00	100.00
335	6.34	77.71	-10.00	121.54	-10.00	100.00
340	6.46	82.70	-10.00	120.12	-10.00	100.00
345	7.41	87.70	-10.00	109.96	-10.00	100.00
350	7.19	92.69	-10.00	112.29	-10.00	100.00
355	6.65	97.69	-10.00	118.09	-10.00	100.00