

Lynk Global, Inc

Additional Requested Information for Application Number 0931-EX-CN-2020

a.) IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM,

inclination angle: 51.6 degrees.

Apogee (km): 480 km

Perigee (km): 480 km,

Orbital Period (hours): 1.569 hours

Number of satellites: 1 satellite

b) THE SATELLITE TRANSMITTER ANTENNA GAIN AND BEAMWIDTH,

Antenna gain: 15 dBi

Beamwidth: 40 degrees (full cone)

c) THE SATELLITE TRANSMITTER ANTENNA AZIMUT: NARROWBEAM (NB), EARTH COVERAGE (EC),

The antenna points directly nadir and narrowbeam (40 degrees full cone).

d) THE EARTH STATION(S) RECEIVER ANTENNA GAIN, BEAMWIDTH, AZIMUTHAL RANGE, THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS AND THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS,

Mobile Phone

G: 0 dBi (omni-directional)

BW: 180 deg (nondirectional full cone)

Azimuthal Range: 360 deg

Tx: 2 W (GSM), 200 mW (LTE)

EIRP: 32 dBm (GSM) 22 dBm (LTE)

(1 dB Tx loss)

Site Elevation depends on testing location (see table below)

Antenna Height above terrain: ~1.5 m

Cellular Module

G: 10 dBi (yagi)

BW: 65 degrees (full cone)

Azimuthal Range: 360 deg

Tx: 2 W (GSM), 200 mW (LTE)

EIRP: 42 dBm (GSM) 32 dBm (LTE)

(1 dB Tx loss)

Site Elevation depends on testing location (see table below)

Antenna Height above terrain: 2~1.5m

Name	Lat (deg)	Long (deg)	Elevation (m)
near St Albans, NSW	-33.2918	150.9712	14
near Mellong, NSW	-33.1658	150.6918	336
near Ngarkat, SA	-35.7484	140.7854	106
Station 2 Ngarkat National Park	-35.8607	140.7781	106
Station 1 Off South Terrace Adelaide	-34.9372	138.6177	46
Station 3 Hobart	-42.8761	147.3347	16
near Paruna, SA	-34.7489	140.7548	42
Near to Wiseman's Ferry NSW	-33.2859	150.5910	476
Location 1 near Kupang, Indonesia	-8.5045	119.9805	327
Location 2 near Kupang, Indonesia	-8.5310	119.9761	179
Shanagraigue, Cork County, Ireland	51.8078	-8.4528	82
Argentina Point 1 near Chubut	-42.9752	-64.5834	77
Argentina Point 2 near Golfo San Mateas	-41.1653	-65.3883	186
Argentina Point 3 near Golfo Nuevo	-42.7599	-63.6516	35
Argentina Point 4 near Puerto Madryn	-42.7702	-65.0335	12
Navajo, USA	35.9498	-110.0844	1889
near Saint Johns	47.5615	-52.7126	17
near Val D'Or Quebec	48.0987	-77.7968	324
Wellington, NZ	-40.9487	175.1082	450
Christchurch, NZ	-43.8733	172.8942	273
Lake Heron, NZ	-43.4908	171.1778	691
Lobo, Batangas	13.6732	121.2388	20

Brgy Cuyabu, Tanay Rizal	14.5586	121.1361	11
Brgy Santa Inez, Tanay Rizal	14.6318	121.3475	258
Brgy Camflora, San Andres, Quezon	13.3527	122.6359	236
Brgy Tala, San Andres, Quezon	13.4012	122.6216	253
Higher Warcombe, Ilfracombe	51.1931	-4.1858	85
Bosherston, Pembrokeshire	51.6027	-4.9390	37
Bermuda Site 1	32.3300	-64.7100	47
Falkland Islands	-51.8000	-59.5200	0
New Zealand Location 1	-41.1792	174.8916	145
Gonaganara, Sella Kataragama	6.5404	81.3049	94
Situlpawwa	6.3877	81.4493	55
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Situlpawwa	6.3877	81.4493	55
Pathnangala	6.3416	81.4963	8
Rest area nr "manik" river - kotabendiwew a	6.3988	81.4825	23
Modaragala	6.3892	81.4712	30
Sri Lanka "Location 1"	6.3127	81.4682	10
Sri Lanka "Location 2"	6.3425	81.4474	20
Sri Lanka "Location 3"	6.3632	81.4762	52
near Chibougamau, QC	50.1371	-74.77678	390
near Havre Saint-Pierr, QC	50.2398	-63.59613	10
near Saint Anthony, NL	51.469	-55.78	46
near Sandspit, BC (P1)	52.9754	-132.4511	0
near Sandspit, BC (P2)	52.9754	-132.4511	0
Maple Glen, Invercargill, New Zealand	-46.4175	168.83180	70

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Falls Church, VA USA	38.8823	-77.16378	95
Sperryville, VA USA	38.6316	-78.2221	217

e) THE EARTH STATION(S) RECEIVER ANTENNA AZIMUTH, THE MINIMUM ANGLE OF ELEVATION (V00 TO V90):

Antenna Azimuth: 0-360 degrees

Min Angle of Elevation: 55 degrees (V55)