

Two Line Element (TLE) Format

- TLE data for each satellite consists of three lines in the following format
- For more Two Line Element sets information, see Celestrak web site 'http://www.celestrak.com/NORAD/documentation/tle-fmt.asp'.

GCOM-C													
(a)													
1	43065	U	17082	A	18332.22107755	.00000008	00000-0	21232-4	0	9994			
(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
2	43065	98.6528	42.9929	0001247	105.7040	254.4278	14.27265986	48525					
(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)				

- (a) Twenty-four character name
- (b) Line Number of Element Data (c) Satellite Number (d) Classification (U=Unclassified)
- (e) International Designator (Last two digits of launch year) (f) International Designator (Launch number of the year)
- (g) International Designator (Piece of the launch) (h) Epoch Year (Last two digits of year)
- (i) Epoch (Day of the year and fractional portion of the day) (j) First Time Derivative of the Mean Motion
- (k) Second Time Derivative of Mean Motion (decimal point assumed) (l) BSTAR drag term (decimal point assumed)
- (m) Ephemeris type (n) Element number (o) Checksum
- (p) Line Number of Element Data (q) Satellite Number (r) Inclination [Degrees]
- (s) Right Ascension of the Ascending Node [Degrees] (t) Eccentricity (decimal point assumed)
- (u) Argument of Perigee [Degrees] (v) Mean Anomaly [Degrees] (w) Mean Motion [Revs per day]

TLE File Name Definition

TLE file name definition : NNNNNNyyyymmddhhmmss

NNNNNN = C1TLEN or C1TLEO(*) ,

C1TLEN : Primary plan which consider the orbital maneuver (Nominal case)

C1TLEO : Orbital maneuver is not consider (Off-nominal case)

yyyymmddhhmmss = file creation time

(*)Normally, please use C1TLEN because C1TLEO does not consider the orbital maneuver for orbit calculation.