

## Additional Data Items Required for API

ADM: \_\_\_\_\_

Name of satellite network: \_\_\_\_\_

AP4 Reference	Description	Type of Response		Value
A.1.g	indicator showing that the non-GSO satellite system is planned to be operated in accordance with Resolution 32 (WRC 19) <i>(Kindly note the additional conditions listed in the said Resolution for non-GSO satellite system using short-duration mission if the value provided is 'Y')</i>	Mandatory	Y/N	
A.4.b.1.a	indicator of whether the non-geostationary-satellite system represents a “constellation”, where the term “constellation” describes a satellite system, for which the relative distribution of the orbital planes and satellites is defined <i>Note</i> – Non-geostationary-satellite systems in frequency bands subject to the provisions of Nos. <b>9.12, 9.12A, 22.5C, 22.5D, 22.5F or 22.5L</b> are always considered as “constellations”	Mandatory	Y/N	
A.4.b.1.b	indicator of whether all the orbital planes identified under <b>A.4.b.1</b> describe a) a single configuration where all frequency assignments to the satellite system will be in use or b) multiple configurations that are mutually exclusive where a sub-set of the frequency assignments to the satellite system will be in use on one of the sub-sets of orbital parameters to be determined at the notification and recording stage of the satellite system  Required only for the: 1) advance publication information for a non-geostationary-satellite system representing a constellation ( <b>A.4.b.1.a</b> ), and 2) coordination request for non-geostationary-satellite systems	Mandatory * under specified conditions	S-Single / M-Multiple	
A.4.b.1.c	if the orbital planes identified under <b>A.4.b.1</b> describe multiple mutually exclusive configurations, identification of the number of sub-sets of orbital characteristics that are mutually exclusive  Required only for the: 1) advance publication information for a non-geostationary-satellite system representing a constellation ( <b>A.4.b.1.a</b> ), and 2) coordination request for non-geostationary-satellite systems	Mandatory * under specified conditions	Integer	
A.4.b.1.d	if the orbital planes identified under <b>A.4.b.1.b</b> describe multiple mutually exclusive configurations, identification of the orbital planes’ id numbers that are associated with each of the mutually exclusive configurations  Required only for the: 1) advance publication information for a non-geostationary-satellite system representing a constellation ( <b>A.4.b.1.a</b> ), and 2) coordination request for non-geostationary-satellite systems	Mandatory * under specified conditions	Provide in separate table, enter here the attachment number	
A.4.b.4.h	the initial phase angle ( $\omega_i$ ) of the $i$ -th satellite in its orbital plane at reference time $t = 0$ , measured from the point of the ascending node ( $0^\circ \leq \omega_i < 360^\circ$ )  Required only in the case of a non-geostationary-satellite system representing a “constellation” ( <b>A.4.b.1.a</b> ), and to be specified in: 1) the advance publication information, for any frequency assignment not subject to the provisions of Section II of Article 9 2) the coordination request, for any frequency assignment subject to the provisions of Nos. <b>9.12, 9.12A, 22.5C, 22.5D, 22.5F or 22.5L</b> 3) the notification, in all cases <i>Note</i> – The initial phase angle is the argument of perigee plus the true anomaly	Mandatory * under specified conditions	Provide in separate table, enter here the attachment number: (attachment should contain a value for each satellite in each orbital plane)	
A.4.b.4.i	the argument of perigee ( $\omega_p$ ), measured in the orbital plane, in the direction of motion, from the ascending node to the perigee ( $0^\circ \leq \omega_p < 360^\circ$ ):  Required only for orbits of a “constellation” ( <b>A.4.b.1.a</b> ) where the altitudes of apogee and perigee ( <b>A.4.b.4.d</b> and <b>A.4.b.4.e</b> ) are different, and to be specified in: 1) the advanced publication information, for any frequency assignment not subject to the provisions of Section II of Article 9 2) the coordination request, for any frequency assignment subject to the provisions of Nos. <b>9.12, 9.12A, 22.5C, 22.5D, 22.5F or 22.5L</b> 3) the notification, in all cases	Mandatory * under specified conditions	Provide in separate table, enter here the attachment number: (attachment should contain a value for each orbital plane)	

AP4 Reference	Description	Type of Response		Value
<b>A.4.b.4.j</b>	<p>the longitude of the ascending node (<math>\theta_j</math>) for the <math>j</math>-th orbital plane, measured counter-clockwise in the equatorial plane from the Greenwich meridian to the point where the satellite orbit makes its South-to-North crossing of the equatorial plane (<math>0^\circ \leq \theta_j &lt; 360^\circ</math>)</p> <p>Required only for orbits of a “constellation” (<b>A.4.b.1.a</b>), and to be specified in:</p> <ol style="list-style-type: none"> <li>1) the advance publication information, for any frequency assignment not subject to the provisions of Section II of Article 9</li> <li>2) the coordination request, for any frequency assignment subject to the provisions of Nos. <b>9.12</b>, <b>9.12A</b>, <b>22.5C</b>, <b>22.5D</b>, <b>22.5F</b> or <b>22.5L</b></li> <li>3) the notification, in all cases</li> </ol> <p><b>Note</b> – All satellites in all orbital planes must use the same reference time. If no reference time is provided in <b>A.4.b.4.k</b> and <b>A.4.b.4.l</b>, it is assumed to be <math>t = 0</math></p>	Mandatory * under specified conditions	Provide in separate table, enter here the attachment number: (attachment should contain a value for each orbital plane)	
<b>A.4.b.4.k</b>	the date (day:month:year) at which the satellite is at the location defined by the longitude of the ascending node ( $\theta_j$ ) (see Note under <b>A.4.b.4.j</b> )	Optional *	Provide in separate table, enter here the attachment number: (attachment should contain a value for each satellite in each orbital plane)	
<b>A.4.b.4.l</b>	the time (hours:minutes) at which the satellite is at the location defined by the longitude of the ascending node ( $\theta_j$ ) (see Note under <b>A.4.b.4.j</b> )	Optional *	Provide in separate table, enter here the attachment number: (attachment should contain a value for each satellite in each orbital plane)	
<b>A.4.b.4.m</b>	indicator of whether the space station uses sun-synchronous orbit or not Required only in frequency bands not subject to the provisions of Nos <b>9.12</b> or <b>9.12A</b>	Mandatory * under specified conditions	Y/N	
<b>A.4.b.4.n</b>	if the space station uses sun-synchronous orbit ( <b>A.4.b.4.m</b> ), indicator of whether the space station references the local time of the ascending node (solar local time when the space station is crossing the equatorial plane in the South-North direction in hours:minutes format) or the descending node (solar local time when the space station is crossing the equatorial plane in the North-South direction in hours:minutes format)	Optional *	Y/N	
<b>A.4.b.4.o</b>	if the space station uses sun-synchronous orbit ( <b>A.4.b.4.m</b> ), the local time of the ascending (or descending, per <b>A.4.b.4.n</b> ) node (solar local time when the space station is crossing the equatorial plane in the South-North (or North-South) direction in hours : minutes format)	Optional *	Time	

\* These fields may be entered as N/A for those satellite networks that are not applicable

**THIS FORM SHOULD BE SUBMITTED FOR EACH SATELLITE NETWORK**

last updated on 09 APRIL 2020