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Specific data elements required under limited and extended sets of data

Appendix 4 element	Description	Required under limited set	Required under extended set	Note
A.4.b.6.a	**For each range of latitudes:**			
A.4.b.6.a.1	the maximum number of non-geostationary satellites transmitting with overlapping frequencies to a given location	**X**		
A.4.b.6.a.2	the associated start of the latitude range	**X**		
A.4.b.6.a.3	the associated end of the latitude range	**X**		
A.4.b.7.a	the maximum number of non-geostationary satellites receiving simultaneously with overlapping frequencies from the associated earth stations within a given cell	**X**		
A.4.b.7.b	the average number of associated earth stations with overlapping frequencies per square kilometre within a cell	**X**		
A.4.b.7.c	the average distance, in kilometres, between co frequency cells	**X**		
A.4.b.7.cbis	the minimum elevation angle at which any associated earth station can transmit to or receive from a non-geostationary satellite	**X**		
A.4.b.7.d	For the exclusion zone about the geostationary-satellite orbit:	**X**		
A.4.b.7.d.1	the type of zone (based on topocentric angle or, satellite-based angle or other method for establishing the exclusion zone)	**X**		
A.4.b.7.d.2	if the zone is based on a topocentric angle or a satellite-based angle, the width of the zone, in degrees	**X**		
A.14	**SPECTRUM MASKS in xml-format**			**NOTE 1**
A.14.a	For each e.i.r.p. mask used by the non-geostationary space station:	**X**	**X**	
A.14.a.1	the mask identification code	**X**	**X**	
A.14.a.2	the lowest frequency for which the mask is valid	**X**	**X**	
A.14.a.3	the highest frequency for which the mask is valid	**X**	**X**	
A.14.a.4	the mask pattern defined in terms of the power in the reference bandwidth for a series of angles measured at the non-geostationary space station between the line to the sub-satellite point and the line to a point on the geostationary arc, together with the bandwidth used	**X**	**X**	
A.14.a.5	the reference bandwidth used for the mask pattern of A.14.a.4	**X**	**X**	
A.14.b	For each associated earth station e.i.r.p. mask:	**X**	**X**	

A.14.b.1	the mask identification code	**X**	**X**	
A.14.b.2	the lowest frequency for which the mask is valid	**X**	**X**	
A.14.b.3	the highest frequency for which the mask is valid	**X**	**X**	
A.14.b.6	the mask pattern defined in terms of the power in the reference bandwidth as a function of latitude and the off-axis angle between the non-geostationary earth station boresight line and the line from the non-geostationary earth station to a point on the GSO arc	**X**	**X**	
A.14.b.7	the reference bandwidth used for the mask pattern of A.14.b.6	**X**	**X**	
A.14.c	For each pfd mask used by the non-geostationary space station:	**X**	**X**	
A.14.c.1	the mask identification code	**X**	**X**	
A.14.c.2	the lowest frequency for which the mask is valid	**X**	**X**	
A.14.c.3	the highest frequency for which the mask is valid	**X**	**X**	
A.14.c.4	the type of mask, among one of the following types: (Earth-based exclusion zone angle, difference in longitude, latitude), (satellite-based exclusion zone angle, difference in longitude, latitude) or (satellite azimuth, satellite elevation, latitude)	**X**	**X**	
A.14.c.5	the mask pattern of the power flux-density defined in three dimensions	**X**	**X**	
A.14.c.6	the reference bandwidth used for the mask pattern of A.14.c.5	**X**	**X**	
A.14.d	**For each set of non-geostationary-satellite system operating parameters**		**X**	**NOTE 2**
A.14.d.1	the parameter set identification code		**X**	
A.14.d.2	the lowest frequency for which the mask is valid			
A.14.d.3	the highest frequency for which the mask is valid		**X**	
A.14.d.4	minimum limit of the latitude range of non-geostationary earth station locations in degrees North		**X**	
A.14.d.5	maximum limit of the latitude range of non-geostationary earth station locations in degrees North		**X**	
A.14.d.6	the average number of associated earth stations, per km2, active at the same time		**X**	
A.14.d.7	the average distance, in kilometres, between co frequency cell or beam footprint centre		**X**	
A.14.d.8	the minimum duration, in seconds, during which an earth station will track a non-geostationary satellite without handover for different ranges of latitude		**X**	
A.14.d.9	the maximum number of co-frequency tracked non-geostationary satellites for different ranges of latitude		**X**	
A.14.d.10	the exclusion zone angle (degrees), i.e. the minimum angle to the geostationary arc at the non-geostationary earth station at which it will operate, defined at the earth station's given latitude range		**X**	

A.14.d.11	the minimum elevation angle (degrees) of the non-geostationary earth station when it is receiving or transmitting within a given latitude (degrees North) and azimuth (degrees from North) range		**X**	

Note 1 – For XML-format description, see https://www.itu.int/ITU-R/go/space-mask-XMLfile/en

Note 2 – For masks with operating parameters see section B3.3 of ITU-R Recommendation S.1503-3.