

EUROCONTROL SPECIFICATION FOR DATA QUALITY REQUIREMENTS

Harmonised List

DQR Spec - HL: Ed. 1.2 dated 25/02/2016

LISTA HARMONIZADA (HARMONIZED LIST)

REF ID	Data Item	RESOLUTION	ICAO SOURCE	ACCURACY	ICAO SOURCE	DATA TYPE	INTEGRITY CLASSIFICATION
Latitude and longitude							
LL001	Flight information region boundary points	1 min	Annex 15	2 km	Annex 11	declared	routine
LL002	P, R, D area boundary points (outside CTA/CTR boundaries)	1 min	Annex 15	2 km	Annex 11	declared	routine
LL003	P, R, D area boundary points (inside CTA/CTR boundaries)	1 sec	Annex 15	100 m	Annex 11	calculated	essential
LL004	CTA/CTR boundary points	1 sec	Annex 15	100 m	Annex 11	calculated	essential
LL005	En-route NAVAIDS, intersections and waypoints, and holding, and STAR/SID points	1 sec	Annex 15	100 m	Annex 11	surveyed/calculated	essential
LL007	Aerodrome reference point	1 sec	Annex 15	30 m	Annex 14 V1	surveyed/calculated	routine
LL008	Heliport reference point	1 sec	Annex 15	30 m	Annex 14 V2	surveyed/calculated	routine
LL009	NAVAIDS located at the aerodrome	1/10 sec	Annex 15	3 m	Annex 14 V1	surveyed	essential
LL010	NAVAIDS located at the heliport	1/10 sec	Annex 15	3 m	Annex 14 V2	surveyed	essential
LL016	Final approach fixes/points and other essential fixes/points comprising the instrument approach procedure	1/10 sec	Annex 15	3 m	Annex 11	surveyed/calculated	essential
LL017	Runway threshold	1/100 sec	Annex 15	1 m	Annex 14 V1	surveyed	critical
LL018	Runway end	1/100 sec	Annex 15	1 m	Annex 14 V1	surveyed	critical
LL019	Runway holding position	1/100 sec	Annex 15	0.5 m	Annex 14 V1	surveyed	critical
LL020	Runway centre line points	-	-	1 m	Annex 14 V1	surveyed	critical
LL021	Taxiway centre line/parking guidance line points	1/100 sec	Annex 15	0.5 m	Annex 14 V1	surveyed	essential
LL022	Helicopter ground taxiway centre line points and helicopter air taxiway points	-	-	0.5 m	Annex 14 V2	surveyed/calculated	essential
LL042	Helicopter ground taxiway intersection marking line	-	-	0.5 m	Annex 14 V2	surveyed	essential
LL023	Taxiway intersection marking line	1/100 sec	Annex 15	0.5 m	Annex 14 V1,V2	surveyed	essential
LL025	Exit guidance line	1/100 sec	Annex 15	0.5 m	Annex 14 V1,V2	surveyed	essential
LL027	Aircraft stand points/INS checkpoints	1/100 sec	Annex 15	0.5 m	Annex 14 V1	surveyed	routine
LL028	Helicopter stand points/INS checkpoints	-	-	0.5 m	Annex 14 V2	surveyed	routine
LL029	Geometric centre of TLOF or FATO thresholds	1/100 sec	Annex 15	1 m	Annex 14 V2	surveyed	critical
LL030	Apron boundaries (polygon)	1/10 sec	Annex 15	1 m	Annex 14 V1,V2	surveyed	routine
LL032	De-icing/anti-icing facility (polygon)	1/10 sec	Annex 15	1 m	Annex 14 V1,V2	surveyed	routine
LL034	Obstacles in Area 1	1 sec	Annex 15	50 m	Annex 15	surveyed	routine
LL035	Obstacles in Area 2	1/10 sec	Annex 15	5 m	Annex 15	surveyed	essential
LL036	Obstacles in Area 3	1/10 sec	Annex 15	0.5 m	Annex 15	-	essential
LL037	Obstacles in Area 4	-	-	2.5 m	Annex 15	-	essential
LL038	Terrain in Area 1	-	-	50 m	Annex 15	-	routine
LL039	Terrain in Area 2	-	-	5 m	Annex 15	-	essential
LL040	Terrain in Area 3	-	-	0.5 m	Annex 15	-	essential
LL041	Terrain in Area 4	-	-	2.5 m	Annex 15	-	essential
LL042	FPAP for SBAS Procedures	5/10000 sec	DOC 8168	0.3 m	DOC 8168	calculated	critical
LL043	LTP/FTP for SBAS Procedures	5/10000 sec	DOC 8168	0.3 m	DOC 8168	calculated	critical
Elevation / altitude / height							
EH001	Aerodrome elevation	1 m or 1 ft	Annex 15	0.5 m	Annex 14 V1	surveyed	essential
EH002	Heliport elevation	1 m or 1 ft	Annex 15	0.5 m	Annex 14 V2	surveyed	essential
EH003	WGS-84 geoid undulation at aerodrome elevation position	1 m or 1 ft	Annex 15	0.5 m	Annex 14 V1	surveyed	essential
EH004	WGS-84 geoid undulation at heliport elevation position	1 m or 1 ft	Annex 15	0.5 m	Annex 14 V2	surveyed	essential
EH005	Runway threshold, non-precision approaches	1 m or 1 ft	Annex 15	0.5 m	Annex 14 V1	surveyed	essential
EH006	FATO threshold, for heliports with or without a PinS approach	1 m or 1 ft	Annex 15	0.5 m	Annex 14 V2	surveyed	essential
EH007	WGS-84 geoid undulation at runway threshold, non-precision approaches	1 m or 1 ft	Annex 15	0.5 m	Annex 14 V1	surveyed	essential
EH008	WGS-84 geoid undulation at FATO threshold, TLOF geometric centre, for heliports with or without a PinS approach	1 m or 1 ft	Annex 15	0.5 m	Annex 14 V2	surveyed	essential
EH009	Runway threshold, precision approaches	0.1 m or 0.1 ft	Annex 15	0.25 m	Annex 14 V1	surveyed	critical
EH010	FATO threshold, for heliports intended to be operated in accordance with ICAO Annex 14, Appendix 2	0.1 m or 0.1 ft	Annex 15	0.25 m	Annex 14 V2	surveyed	critical
EH011	WGS-84 geoid undulation at runway threshold, precision approaches	0.1 m or 0.1 ft	Annex 15	0.25 m	Annex 14 V1	surveyed	critical
EH012	WGS-84 geoid undulation at FATO threshold, TLOF geometric centre, for heliports intended to be operated in accordance with ICAO Annex 14, Appendix 2	0.1 m or 0.1 ft	Annex 15	0.25 m	Annex 14 V2	surveyed	critical
EH013	Runway centre line points	-	-	0.25 m	Annex 14 V1	surveyed	critical

EH014	Taxiway centre line/parking guidance line points	-	-	1 m	Annex 14 V1	surveyed	essential
EH015	Helicopter ground taxiway centre line points and helicopter air taxiway points	-	-	1 m	Annex 14 V2	surveyed	essential
EH016	Threshold crossing height (reference datum height), precision approaches	0.1 m or 0.1 ft	Annex 15	0.5 m	Annex 11	calculated	critical
EH023	Obstacle clearance altitude/height (OCA/H)	-	-	as specified in PANS-OPS (Doc 8168)	Annex 11	-	essential
EH024	Distance measuring equipment/precision (DME/P)	3 m (10 ft)	Annex 15	3 m	Annex 14 V1,V2	surveyed	essential
EH026	Distance measuring equipment (DME)	30 m (100 ft)	Annex 15	30 m or 100 ft	Annex 11	surveyed	essential
EH027	Instrument approach procedures altitude	-	-	as specified in PANS-OPS (Doc 8168)	Annex 11	-	essential
EH028	Minimum altitudes	50 m or 100 ft	Annex 15	50 m	Annex 11	calculated	routine
EH029	Obstacles in Area 1	1m	Annex 15	30 m	Annex 15	surveyed	routine
EH030	Obstacles in Area 2	0.1 m	Annex 15	3 m	Annex 15	surveyed	essential
EH031	Obstacles in Area 3	0.01 m	Annex 15	0.5 m	Annex 15	-	essential
EH032	Obstacles in Area 4	0.1 m	Annex 15	1 m	Annex 15	-	essential
EH033	Terrain in Area 1	1 m	Annex 15	30 m	Annex 15	-	routine
EH034	Terrain in Area 2	0.1 m	Annex 15	3 m	Annex 15	-	essential
EH035	Terrain in Area 3	0.01 m	Annex 15	0.5 m	Annex 15	-	essential
EH036	Terrain in Area 4	0.1 m	Annex 15	1 m	Annex 15	-	essential
EH037	GBAS Reference Point	1m or 1ft	Annex 15	-	-	-	essential
EH038	Heliport crossing height, Pins approaches	1m or 1ft	Annex 15	0.5 m	Annex 14 V2	calculated	essential
Declination and magnetic variation							
DM001	VHF NAVAID station declination used for technical line-up	1 degree	Annex 15	1 degree	Annex 11	surveyed	essential
DM002	NDB NAVAID magnetic variation	1 degree	Annex 15	1 degree	Annex 11	surveyed	routine
DM003	Aerodrome magnetic variation	1 degree	Annex 15	1 degree	Annex 14 V1	surveyed	essential
DM004	Heliport magnetic variation	1 degree	Annex 15	1 degree	Annex 14 V2	surveyed	essential
DM005	ILS localizer antenna magnetic variation	1 degree	Annex 15	1 degree	Annex 14 V1,V2	surveyed	essential
DM007	MLS azimuth antenna magnetic variation	1 degree	Annex 15	1 degree	Annex 14 V1,V2	surveyed	essential
Bearing							
BR001	Airway segments	1 degree	Annex 15	1/10 degree	Annex 11	calculated	routine
BR002	Bearing used for the formation of an en-route and of a terminal fix	1/10 degree	Annex 15	1/10 degree	Annex 11	calculated	routine
BR003	Terminal arrival/departure route segments	1 degree	Annex 15	1/10 degree	Annex 11	calculated	routine
BR004	Bearing used for the formation of an instrument approach procedure fix	1/100 degree	Annex 15	1/100 degree	Annex 11	calculated	essential
BR005	ILS localizer alignment (True)	1/100 degree	Annex 15	1/100 degree	Annex 14 V1,V2	surveyed	essential
BR007	MLS zero azimuth alignment (True)	1/100 degree	Annex 15	1/100 degree	Annex 14 V1,V2	surveyed	essential
BR009	Runway bearing (True)	1/100 degree	Annex 15	1/100 degree	Annex 14 V1	surveyed	routine
BR010	FATO bearing (True)	1/100 degree	Annex 15	1/100 degree	Annex 14 V2	surveyed	routine
Length / distance / dimension							
LD001	Airway segment length	1/10 km or 1/10 NM	Annex 15	1/10 km	Annex 11	calculated	routine
LD002	Distance used for the formation of an en-route fix	1/10 km or 1/10 NM	Annex 15	1/10 km	Annex 11	calculated	routine
LD003	Terminal arrival/departure route segment length	1/100 km or 1/100 NM	Annex 15	1/100 km	Annex 11	calculated	essential
LD004	Distance used for the formation of a terminal and instrument approach procedure fix	1/100 km or 1/100 NM	Annex 15	1/100 km	Annex 11	calculated	essential
LD005	Runway length	1 m or 1 ft	Annex 15	1 m	Annex 14 V1	surveyed	critical
LD006	FATO length, TLOF dimensions	1 m or 1 ft	Annex 15	1 m	Annex 14 V2	surveyed	critical
LD007	Runway width	1 m or 1 ft	Annex 15	1 m	Annex 14 V1	surveyed	essential
LD008	Displaced threshold distance	1 m or 1 ft	Annex 15	1 m	Annex 14 V1	surveyed	routine
LD009	Clearway length and width	1 m or 1 ft	Annex 15	1 m	Annex 14 V1,V2	surveyed	essential
LD011	Stopway length and width	1 m or 1 ft	Annex 15	1 m	Annex 14 V1	surveyed	critical
LD012	Landing distance available	1 m or 1 ft	Annex 15	1 m	Annex 14 V1,V2	surveyed	critical
LD014	Take-off run available	1 m or 1 ft	Annex 15	1 m	Annex 14 V1	surveyed	critical
LD015	Take-off distance available	1 m or 1 ft	Annex 15	1 m	Annex 14 V1,V2	surveyed	critical
LD017	Rejected take-off distance available	-	-	1 m	Annex 14 V2	surveyed	critical
LD018	Accelerate-stop distance available	1 m or 1 ft	Annex 15	1 m	Annex 14 V1	surveyed	critical
LD019	Runway shoulder width	1 m or 1 ft	Annex 15	1 m	Annex 14 V1	surveyed	essential
LD020	Taxiway width (aerodrome)	1 m or 1 ft	Annex 15	1 m	Annex 14 V1	surveyed	essential
LD021	Helicopter ground or air taxiway/taxi-route width	-	-	1 m	Annex 14 V2	surveyed	essential
LD022	Taxiway shoulder width	1 m or 1 ft	Annex 15	1 m	Annex 14 V1	surveyed	essential
LD023	ILS localizer antenna-runway end, distance	1 m or 1 ft	Annex 15	3 m	Annex 14 V1	calculated	routine
LD024	ILS localizer antenna-FATO end, distance	-	-	3 m	Annex 14 V2	calculated	routine
LD025	ILS glide slope antenna-threshold, distance along centre line	1 m or 1 ft	Annex 15	3 m	Annex 14 V1,V2	calculated	routine
LD027	ILS marker-threshold distance	1 m or 1 ft	Annex 15	3 m	Annex 14 V1,V2	calculated	essential
LD029	ILS DME antenna-threshold, distance along centre line	1 m or 1 ft	Annex 15	3 m	Annex 14 V1,V2	calculated	essential

LD031	MLS azimuth antenna-runway end, distance	1 m or 1 ft	Annex 15	3 m	Annex 14 V1	calculated	routine
LD032	MLS azimuth antenna-FATO end, distance	-	-	3 m	Annex 14 V2	calculated	routine
LD033	MLS elevation antenna-threshold, distance along centre line	1 m or 1 ft	Annex 15	3 m	Annex 14 V1,V2	calculated	routine
LD035	MLS DME/P antenna-threshold, distance along centre line	1 m or 1 ft	Annex 15	3 m	Annex 14 V1,V2	calculated	essential