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## Radio Navigation Aids — En-Route

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### Radio Navigation Aids — En-Route

The following radio navigation aids are established within Damascus FIR for en-route, terminal, and approach use in accordance with ICAO Annex 10.

#### VOR/DME Stations

IDENT	NAME	TYPE	FREQUENCY	CHANNEL	LOCATION (WGS-84)	SERVICE AREA
DAM	Damascus	VOR/DME	116.0 MHz	107X	N33°24'41" E36°30'56"	En-route / OSDI terminal. Hub for G202, L513, R785

IDENT	NAME	TYPE	FREQUENCY	CHANNEL	LOCATION (WGS-84)	SERVICE AREA
<b>ALE</b>	Aleppo	DVOR/DME	114.5 MHz	092X	N36°10'37" E37°13'29"	En-route / OSAP terminal. Hub for B544, B538, W4, W6, UM861
<b>LTK</b>	Lattakia	DVOR/DME	113.6 MHz	083X	N35°24'07" E35°56'51"	En-route / OSLK terminal. STARs NIKAS, LUBAM, KARIATEN
<b>KTN</b>	Kariatain	VOR/DME	117.7 MHz	102X	N34°13'00" E37°16'00"	En-route hub for R655, R785. Eastern FIR coverage
<b>TAN</b>	Tanf	VOR/DME	114.0 MHz	065X	N33°29'00" E38°39'00"	En-route R655, B544. Eastern border coverage
<b>DRZ</b>	Deir ez-Zor	DVOR/DME	118.1 MHz	—	N35°18'00" E40°11'00"	OSDZ terminal. Eastern FIR coverage
<b>KML</b>	Kamishly	DVOR/DME	118.225 MHz	—	N37°01'00" E41°12'00"	OSGN terminal. NE FIR coverage

### **NDB Stations**

IDENT	NAME	TYPE	FREQUENCY	LOCATION (WGS-84)	SERVICE AREA
<b>ABD</b>	Abyad	NDB	370 kHz	N33°30'00" E36°27'00"	OSDI terminal — STARs/SIDs ALT 5000ft reference
<b>DAL</b>	Damascus Locator	NDB	335 kHz	N33°25'12" E36°30'36"	OSDI approach — SID LEB2 reference
<b>AP</b>	Aleppo	NDB	340 kHz	N36°10'51" E37°13'28"	OSAP terminal — Holding pattern (280°/3500ft)
<b>DER</b>	Deir ez-Zor	NDB	355 kHz	N35°17'07" E40°10'34"	OSDZ terminal — Holding (290°/2000ft)
<b>HOM</b>	Homs	NDB	340 kHz	N34°44'00" E36°43'00"	En-route central Syria
<b>BAN</b>	Banias	NDB	304 kHz	N35°13'36" E35°57'24"	OSLK STAR KARIATEN — 8000ft reference
<b>HAS</b>	Hassakeh	NDB	363 kHz	N36°29'00" E40°46'00"	En-route NE Syria

### Notes

- All VOR/DME stations provide both azimuth and distance information per ICAO Annex 10 Vol I.
- DVOR (Doppler VOR) installations at ALE, LTK, DRZ, and KML provide enhanced bearing accuracy in mountainous terrain.
- NDB transmit on LF/MF band. Service volumes may be limited by terrain and atmospheric conditions, particularly during night hours.
- Surveillance services (PSR/SSR) are NOT available within Damascus FIR. Procedural ATC separation is applied.

### NAVAID Identifier and Coordinate Reference (AIP ENR 4.1)

All radio navigation aid identifiers and coordinates listed above are designated in accordance with ICAO Annex 10 and verified using WGS-84 geodetic datum. Each identifier consists of a 2-3 letter code assigned by GACA and registered with ICAO. Coordinates are expressed in degrees, minutes, and seconds (DMS) format.

### NAVAID Coverage

The following coverage applies to en-route NAVAIDs within the Damascus FIR:

NAVAID TYPE	TYPICAL RANGE	USAGE
DVOR/DME	Up to 200 NM	En-route, terminal, approach
VOR/DME	Up to 130 NM	En-route, terminal
NDB	25-75 NM (varies)	Approach, holding, en-route fixes

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