

SOP

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?Enroute

All enroute documentation for the Pluto, Tel-Aviv, and South Acc is published on this site format.

Unit General Operating Procedures

CHAPTER 1 Operating Procedures

1.1 Initial Clearance

1.1.1 Departure Clearances

All traffic from within the LLLL FIR will depart on a standard departure, either IFR, CVFR, or Military ATS, as detailed in the SOP.

Elsewhere, clearances shall be coordinated with the relevant Radar position whose departure is within their area of responsibility

1.1.2 Arrival Clearances

Aircraft inbound to airfields within the Tel-Aviv FIR should be cleared for their route/STAR by the sector that controls them before entering the TMA/CTR of their destination airport.

The responsibility for issuing said clearance varies depending on the sector being controlled, according to the table below:

Sector	Destinations
Tel-Aviv ACC	LLBG (arrival from the west) LLHA (International)
Pluto ACC	LLIB LLHA (Domestic)
South ACC	LLER LLBG (arrival from the south) LLNV (see standing agreement)

1.1.2.1 Confirmation of STAR by Flight Crew

When an aircraft is transferred between Tel-Aviv -> Ben Gurion, there is no need to report STAR. They are expected to continue to fly their flight-planned route.

If the previous controller has instructed the aircraft to fly a heading, the pilot will report the heading.

Where the reported STAR is **correct**, the controller does **not** need to reiterate the STAR to the pilot. Their report may be taken as confirmation that the pilot will follow the STAR, as reported.

Where the reported STAR is **incorrect**, the controller shall proceed as follows:

- If the routing and STAR need amending, the controller shall pass the routing and STAR instruction to the pilot in full and receive a full readback and confirmation that they are able to follow said route.
- If the STAR is from an outdated AIRAC cycle, the controller shall ascertain whether the pilot has the updated/correct STAR, and if yes, re-clear them on this up-to-date STAR.

If the pilot does not report the correct STAR, the controller shall pass the route to the aircraft and obtain a readback.

1.2 Use of "Expect level" Clearances

Many published STAR charts advise pilots of the levels that they should expect ATC to issue.

Agreements between

Split sectors often require that certain climb/descent profiles be adhered to maintain the correct sector coordination sequence.

- Normally, use a single transmission where the expected flight level – for example, “ELY2431, expect 10,000 level by AMMIT, report when ready for descent”

1.3 Holding Phraseology

To reduce instances of incorrect direction holding, controllers are to use the following phraseology when

instructing aircraft to hold: “(callsign) hold at (name), (left/right) hand turns, (as published)”.

For example: “ELY40 hold at PIKOG, left-hand turns, as published”.

If there is no published hold or the direction given differs from the published hold, controllers shall also

specify the inbound course and leg time/distance.

If the pattern is used while the traffic is descending or climbing, you may add at the end of the instruction the altitude clearance, for example: “ELY2431 hold at AZERE, right-hand turns, as published, descend to FL210”.

1.4 Assumption of Electronic Aircraft Tags

The following procedures apply to all transfers of aircraft tags (Israel's internal & external).

1.4.1 Between Radar-Equipped Controllers

Controllers shall only ‘accept’ the transfer of an aircraft tag from a sending controller when the aircraft has

‘checked in’ on the receiving controller’s frequency

The transfer of an aircraft tag from a LLLL radar-equipped unit to another LLLL radar-equipped unit shall indicate to the receiving controller that the aircraft has been identified, their Mode A code validated, and their Mode C readout verified. However, aircraft outside of controlled airspace received from APC units should be instructed to squawk IDENT in accordance with GEN 1.5.2 below.

1.4.2 Aircraft from Unstaffed Airspace

For aircraft coming from unstaffed airspace, controllers should assume the tag after sending a 'contact me.' request. This signals to other controllers that they are trying to contact the aircraft.

1.4.3 Departures

Controllers should not assume aircraft tags for departures until they have checked in on the frequency. Additionally, tags of departing aircraft will not be assumed by APP controllers unless it is their responsibility to complete identification, validation, and verification (IVV).

1.5 Surveillance Procedures

In general, the transfer of an aircraft's tag from a LLLL radar-equipped unit to another LLLL radar-equipped unit shall indicate to the receiving controller that the aircraft has been identified, its Mode A code validated, and Their Mode C readout verified.

1.5.1 SSR Code Allocation

Code allocation for non-local traffic is managed by the TOP-SKY Plugin. Departures joining the ATS\CVFR route network transferred to the Area control center (ACC) from units using local SSR codes, should be allocated a new general code. For example, traffic departing Herzliya northbound with 5102 (T\A 8 SSQ).

1.5.2 Validation of SSR Mode A Codes

The display of a DUPE error (indicating a non-discrete code) on any aircraft's tag requires the controller to identify and validate the aircraft's identity before issuing executive instructions, except for an initial climb. The controller shall assign and validate a new, discrete Mode A code as soon as practicable and before transferring the aircraft to the next controller.

CHAPTER 2 Provision of Air Traffic Service

2.1 Roles and Responsibilities

- Provide the appropriate ATS within their stated Area of Responsibility (AoR) to ensure a safe, orderly, and expeditious flow of air traffic.
- Provide Flight Information Services (FIS) where appropriate.
- Verify flight data, including updating and managing the flight progress strip (data block).
- Maintain a listening watch and conduct standard radiotelephony communication with aircraft.
- Provide ATS to aircraft using radar within the airspace of the relevant AoR and FIS, as appropriate, in accordance with local procedures.
- Where appropriate, identify aircraft, validate, and verify SSR data on first contact or as soon as possible thereafter.
- Assist aircraft in an emergency (except where the simulation of the emergency is denied in accordance with VATSIM Code of Conduct B63).
- Coordinate with Military ATC as required.
- Individually coordinate the movement of aircraft into and out of the sector unless said aircraft are operating under the terms of a Standing Agreement.
- Issue releases to airfields as appropriate.
- Allocate or obtain levels at holding stacks.
- When necessary, initiate a suspension of local Standing Agreements.
- Issue clearances to aircraft to join, leave, or cross regulated/controlled airspace.
- When aircraft are accepted into the sector, ensure separation exists in accordance with this SOP.
- Confirm all data transfer, revisions, and estimates have been effected as required in the local instructions

2.2 Flight Information Services

Controllers shall provide Flight Information Service (FIS) to all known aircraft within their Area of Responsibility (AoR) in accordance with Israel AIP (PAMAT) ["X-07"](#) This service includes:

- **Weather Information:** Providing information regarding known severe weather conditions.
- **Navigation Assistance:** Assisting pilots who observe severe weather and request to deviate from their route. The controller shall facilitate the deviation while considering safety limitations and current air traffic.

2.3 Area Control Service

2.3.1 General Operating Requirements

- **Clearances:** Any pilot operating within controlled airspace is mandatory to obtain a clearance from the appropriate ATC unit before executing any action that requires such clearance.
- **Inability to Comply:** Pilots who are unable to comply with an issued clearance must immediately notify the ATC unit and request an amended clearance.
- **Flight Plans:** All flights within the Tel Aviv FIR must file a flight plan and obtain an ATC clearance, maintaining continuous radio contact with the relevant unit.
- **Cruising Levels:** IFR cruising levels must be maintained in accordance with the Table of Cruising Levels in AIP ENR 1.7.

2.3.2 Coordination of Special Activities and Emergency Simulations

Certain activities require specific coordination and prior approval from the ATC unit before they can be initiated:

- **Emergency Simulations:** Practices of abnormal situations (e.g., forced landings, priority requests, communication failures, or loss of orientation) within a CTR or on traffic routes must be coordinated and approved as a simulation before commencement.
- **Special Flights:** Formation flights, calibration flights, and photography flights require prior coordination and approval from the ATC unit.

2.4 Prioritisation of Services

1. Controllers shall prioritise the provision of services as follows:
 1. **Emergency Situations:** Aircraft in a state of emergency or those executing an approved emergency simulation.
 2. **IFR Traffic:** Provision of Air Traffic Control service to IFR flights operating on ATS routes.
 3. **CVFR/VFR Traffic:** Provision of services to controlled VFR flights within their defined areas.
 4. **Information Services:** Provision of Flight Information Services (FIS) to other participating aircraft.

2.4.1 Top-Down Service Provision

In the absence of local ATC, Area Controllers shall provide a top-down service at aerodromes within their AoR

where an Air Traffic Control service would normally be provided. Provision of ATS to airborne traffic should generally take priority over top-down service provision.

Where necessary, controllers may reduce the extent of the top-down service by permitting aircraft to self-manoeuvre or depart at their discretion. Aircraft should be instructed to maintain a listening watch on the frequency and must not be transferred to Unicom.

While some top-down service degradation is permitted, when the overall traffic workload (En Route and top-down) is such that safety, efficiency, or the experience of pilots is compromised, Area Controllers are to reduce their coverage area. It is recognised that during events, reducing coverage may not be possible.

CHAPTER 3 Local Separation Standards

3.1 General

Separation shall be applied in accordance with Israel AIP Part "X" Section X, Chapter 1, Separation Standards.

Separation on VATSIM is subject to some simplification, especially due to the fact of continuous uninterrupted radar coverage limiting the necessary use of procedural separation. As such, an understanding of the separation requirements in this document will be sufficient for the purpose of area control on VATSIM.

Standard vertical or horizontal separation shall be provided between:

- IFR flights and VFR flights;
- IFR flights and other IFR flights
- Special VFR flights and other Special VFR flights.

3.2 Vertical Separation

Vertical separation exists when the vertical distance between aircraft is never less than the prescribed

minimum. The vertical separation minima are:

- Between aircraft flying subsonic:
 - Up to FL410 apply 1000 ft;
 - b. Above FL410 apply 2000 ft.
- Where at least one of the aircraft is flying supersonic, the vertical separation required is 5000ft

On VATSIM, all aircraft with an RFL above FL290 are assumed to be RVSM approved. Therefore, we apply 1000 ft separation between FL290 and FL410 inclusive (RVSM airspace).

3.3 Separation Based on ATS Surveillance System Information

3.3.1 Radar Separation Minima

The standard minimum horizontal radar separation to be applied across all of LLLL sectors is 5 NM, except LLBG_APP where the use of 3 NM has been approved.

Where there is a requirement for an increase in separation or spacing between aircraft before transfer, this shall be noted in the relevant section(s) of this document.

3.3.2 Ensuring Radar Separation

The minimum radar separation is an absolute minimum. Therefore, aircraft should not be permitted to fly on their own navigation where the minimum separation is not ensured. As a guide, it is recommended that where planned separation is less than 10 NM, aircraft should be on assigned headings to ensure separation. This may be reduced to 7 NM where the use of 3 NM lateral separation has been approved.

It should be noted that due to the nature of VATSIM, headings may need to be assigned where planned separation is greater than required, where there is the possibility of differing aircraft performance. When operating at or close to the radar separation or surveillance monitored separation minima, controllers shall monitor the flights for any unforeseen discrepancy.

Greater separation may be required for wake turbulence separation purposes.

The use of adequate speed control may be used in place of headings for aircraft flying in trail.

3.3.2 Surveillance Monitored Separation

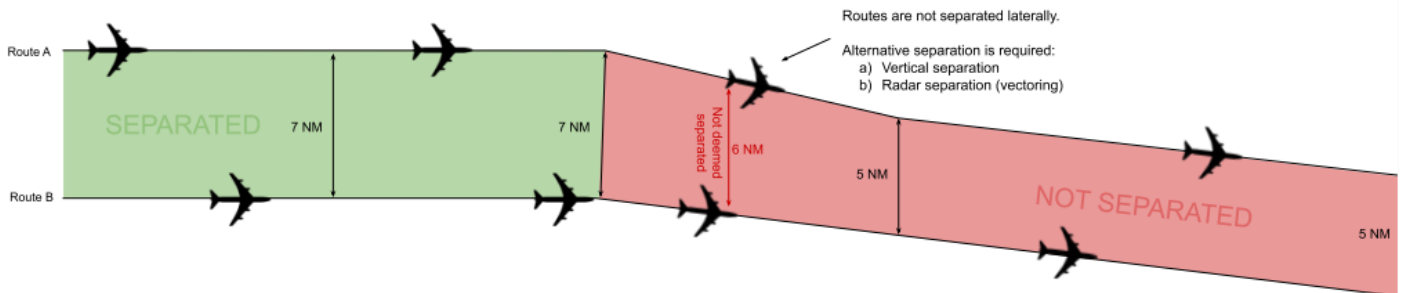
"Own navigation"

Radar monitoring of traffic on ATS routes (including SIDs, STARs, and associated holds) or FRA directs is permitted, subject to the following conditions:

- Traffic must be established on the route centreline, or following radar vectoring / within FRA, more than 7 NM (or 5 NM where 3 NM radar separation is approved) from the adjacent route

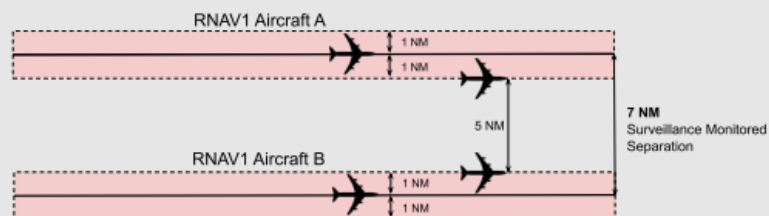
and cleared
to a navigational fix.

- Aircraft must be radar vectored if any significant route deviations are observed by the controller.
- Where turbulence or weather systems are reported, the controller must consider re-establishing
Positive radar control to counter track deviation.
- Controllers should, where possible, ensure that the routes' centrelines or the associated navigational
fix's symbols are displayed when radar monitoring is in use.



We assume all aircraft filed via ATS routes, (RNAV) SIDs/STARs and FRA directs to be RNAV1 certified for the purposes of Surveillance Monitored Separation. If a pilot states that this is not the case, or the controller has any doubt as to the navigation capability of an aircraft, then aircraft must be radar vectored to ensure separation.

The 7 NM separation standard is derived from the 5 NM minimum radar separation, allowing for a ± 1 NM track deviation, as shown in the diagram.



3.3.3 Use of 3 NM Radar Separation

The use of 3NM Radar separation is approved only at LLBG_APP

3.4 Wake Turbulence Separation Requirements

Minimum of 5 NM between a HEAVY (including a SUPER) and a MEDIUM (UPPER and LOWER),
SMALL

or LIGHT aircraft following or crossing behind at the same level or less than 1,000 ft below.

3.5 Minimum Separation Between Sectors

Controllers shall not route or vector unknown traffic closer than 2.5 NM from a sector boundary without prior coordination with the adjacent sector controller.

3.6 Separation Requirements Against Holding Aircraft

A minimum of 5 NM radar separation shall be applied between holding aircraft and en-route aircraft/aircraft approaching the holding facility. This may be reduced to 3 NM radar separation, provided that all conditions are met relating to its use are met.

Note: Controllers should use caution when applying radar separation to aircraft approaching/passing other holding aircraft, considering factors such as variable rates of climb/descent, hold entry patterns, hold protected areas, and weather conditions (particularly prevailing wind).

CHAPTER 4 ALTIMETER SETTING PROCEDURES AND METEOROLOGY

4.1 Altimeter Setting Procedures

4.1.1 Transition Altitude

Transition Altitude	Area
18,000ft	Above the Mediterranean Sea
37,000ft	Above Land

CHAPTER 5 GENERAL COORDINATION REGULATION

5.1 Standing Agreements

A Standing Agreement is a procedure specifying conditions (and restrictions, as required) under which an aircraft may enter another sector/controller's airspace without individual coordination.

Aircraft must be individually coordinated when they cannot be transferred in accordance with a Standing Agreement and are not deemed coordinated. Controllers may agree on temporary (amendments to) Standing Agreements.

5.1.1 Conditions

An aircraft operating under a Standing Agreement shall be:

- cleared to, or at, an agreed level before transfer of communication; and
- on an agreed route or heading.

5.1.2 Transfer of Control and Communication

Unless specific restrictions are specified in the agreement, transfer of control of the aircraft under the terms of a Standing Agreement is coincident with the transfer of communication.

The **offering controller** must ensure that any potential conflict with aircraft either in or entering their own airspace is resolved before transfer of communication.

The **receiving controller** must continue the flight in the same general direction, not climb a descending aircraft or descend a climbing aircraft, nor stop the aircraft at an intermediate level while it remains in the offering controller's airspace.

If traffic on a Standing Agreement will pass through an intermediate controller's airspace without communication (e.g., LLHA departures to the west (transfer to Tel Aviv but passing through Pluto)), transfer of control is normally effective at the receiving controller's AoR boundary. Unless otherwise stated, any turns or climb/descent must be coordinated with all controllers concerned.

5.1.3 Release for Climb or Descent

When transferred under a Standing Agreement, traffic is released for climb/descent (never both) to the top/bottom of the offering controller's airspace, unless the agreement specifies otherwise. On VATSIM, this allows climb/descent into bandboxed sectors, but not for the traffic to enter another controller's airspace.

Note: Traffic that has entered the receiving controller's airspace must not then re-enter the offering controller's airspace during further climb or descent. This is more likely in boxed scenarios.

5.1.4 Release for Turn

When transferred under a Standing Agreement, traffic is released for a turn in the same general direction against known traffic, including if transferred on a heading, and unless the agreement specifies otherwise. The receiving controller must be informed if an aircraft is transferred on a heading against traffic, unknown to them. Any turn must not take the aircraft into a third controller's airspace without prior coordination.

Same general direction means that traffic should continue towards the receiving controller's airspace and should be turned with due consideration given to the distance from the common AoR boundary and surrounding traffic situation, usually by no more than 30°.

If a release for turn is individually or electronically coordinated for an aircraft, the turn must not be greater than 45°, unless a specific direction is agreed.

5.1.5 Level By Instructions

If no "level by" point is specified, the level must be reached prior to the aircraft entering the receiving sector.

However, the traffic does not have to be level at the time of the transfer of communication.

A climbing/descending agreement is indicated by an arrow. This means the aircraft does not need to be level by the sector boundary and may continue to climb/descend to that level within the next sector's airspace.

↑ ↓ | Indicates a climbing/descending agreement.

Where specified in an agreement, the "level by" point should be included in the descent clearance to ensure the correct sector sequence. If the level specified cannot be achieved by the aircraft, the pilot in command shall inform ATC immediately. ATC is responsible for further coordination with the appropriate sector(s).

Where an agreement for climbing outbounds specifies a level-by-point, controllers shall monitor the climb rate

and intervene/coordinate as required. Optionally, the “level by” point may be specified in the clearance.

5.1.6 Additional Coordination Requirements

If an aircraft that would normally be transferred to a sector on a Standing Agreement is routed to avoid that sector entirely, controllers should notify the original sector that the traffic has been ‘skipped’.

Aircraft following a route for which an inbound Standing Agreement exists, but at a level higher than the aircraft’s RFL must be individually coordinated.

On VATSIM, electronic coordination via EuroScope may be used to notify the next sector of an RFL below the Standing Agreement level, or to coordinate a different level. The receiving controller must acknowledge the coordination request for it to be deemed as coordinated.

5.2 Deemed Coordination of En-Route Traffic

Traffic that has reached the RFL indicated on the flight plan by the sector boundary is deemed to have been coordinated and may be transferred by silent handover, provided that:

- The aircraft is at a correct level for the direction of flight;
- The RFL has not been changed within 30 NM of the AoR boundary; and
- No objection has been raised by the receiving controller.

Where the RFL is unusually low for the flight planned route, controllers should notify these flights to the next sector individually.

Transfer of Control is at the receiving sector boundary, unless otherwise stated in this document.

5.3 Individual Coordination

Flights not deemed coordinated or subject to a Standing Agreement must be individually coordinated between sector controllers. An exit flight level should be offered, and other conditions may optionally be applied.

Departures from aerodromes not covered by Standing Agreements must also be allocated a level for acceptance from the aerodrome/approach controller by the receiving sector.

Allow the receiving sector to identify the traffic before presenting the coordination request.

5.4 Transfer of Control and Communication

Unless otherwise stated in this document:

- transfer of control is effective at the common AoR boundary between the offering and receiving controllers
- transfer of communication shall take place no later than the sector boundary.

Aircraft must not enter a third controller's airspace without coordination. This applies to all climb/descent and turn procedures detailed below and in sector instructions.

5.4.1 Release for Climb or Descent

Aircraft that are climbing/descending are released for climb/descent to the top/bottom of the transferring controller's airspace.

5.4.2 Release for Turn

Traffic transferred on its own navigation is released for turn in the same general direction.

If an aircraft not operating under the terms of a Standing Agreement is transferred on a heading, any change of heading, before entering the receiving controller's airspace, must be coordinated unless otherwise specified in sector procedures.

It is the responsibility of the receiving controller to ascertain if an aircraft is on a heading, and it should be noted that aircraft may be transferred on a heading against traffic, unknown to the receiving sector

If a release for turn is individually or electronically coordinated for an aircraft, the turn must not be greater than 45°, unless a specific direct is agreed.

5.4.3 Full Release

A full release is an authorisation for the accepting unit to climb, descend and/or turn a specific aircraft according to the instructions above.

5.4.4 Conditions of Transfer

Aircraft transferred on a heading or with a speed restriction should have this recorded in the tag, with the pilot instructed to report their assigned heading and/or speed upon transfer of communication.

5.5 Handover

5.5.1 Silent Handover

Unless otherwise stated in this document, transfer of control between an enroute controller and an external

ACC may take place by means of a Silent Handover (that is, without prior coordination) provided that:

5.5.2 Radar Handover

Where the conditions for Silent Handover are not met, transfer of control by radar handover, the transferring controller will transfer the TAG of Said traffic and wait for acceptance; only then may the transferring controller transfer the control of the traffic.

- If the aircraft concerned are following the same route, they are spaced by a minimum of 10 NM, constant or increasing. (See Note).
- If the aircraft concerned are on crossing tracks, the conditions detailed under (Reduced) Longitudinal Separation for the relevant ACC is met.
- The transferring controller places any speed control or vectoring instructions (within the terms of the agreement) in the tag and instructs the aircraft to report these on first contact with the receiving controller.
- The receiving controller is informed, by means of XFL electronic coordination or otherwise, of any level restriction other than an aircraft's requested flight level or those covered by Standing Agreement prior to transfer of communications.

Note: The 10 NM here is not a separation standard. It is the minimum spacing required for a silent transfer of control.

5.6 Coordination of Direct Routings

There is no requirement to coordinate a direct routing for an aircraft, provided that the direct issued:

- Is entered in the data block label and/or EuroScope sector list;
- Ensures the aircraft will enter the receiving sector at the boundary with the offering sector, not through an intermediate sector; and
- Will not take the aircraft off route by more than 5 NM in the next or any subsequent sectors, or contravene any positioning requirements specified in a Standing Agreement.

If any of the above conditions cannot be met, coordination shall be effected by the offering sector with the receiving sector, the original receiving sector if that has changed, and any intermediate sectors through which the aircraft will transit.

5.7 Electronic Coordination

Electronic coordination requires less time to perform (usually a few seconds) and generally lower controller workload.

Releases between controllers may be specified via the TOPSKY Plugin Enroute Release tag item. Additionally, some neighbouring ACCs use TopSky, which has release functionality.

The main limitation of EuroScope electronic coordination is that they are only applicable to pre-defined scenarios and can only be initiated by one adjacent controller. Also, it is not suitable for time-critical situations where a timely response is essential

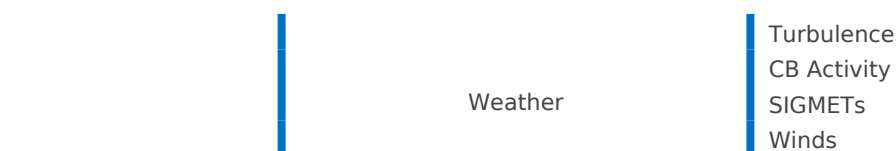
Controllers should be aware that accepting coordination of a direct routing only appears in the aircraft tag for the coordinating and receiving controllers. It is therefore advisable for the current controller to re-enter/re-type any direct into the scratchpad/tag after it has been agreed via electronic coordination.

Where electronic coordination is used to agree a transfer level, this level is always assumed to be the level by the coordination point (or sector boundary if no defined point).

5.8 Handing Over/Taking Over an Operational Position

A Controller taking over a position must be fully aware of all relevant information before they accept responsibility for the operational position. Controllers are recommended to use one of the following checklists as an aid when handing over and taking over sectors.

5.8.1 WEST



Pressure Settings
Runway(s) in Use

E

S

T

Equipment	RT/Intercom systems ATIS
Situation	Military Activity Holding Flow restrictions (e.g., MDI) Staffing/Adjacent ATC
Traffic	Traffic on frequency Pending Traffic Potential Traffic Conflicts

5.8.1 PRAWNS

P

R

A

W

N

S

Pressure	Pressure Settings
Roles	Area Sectors – bandboxed? Splits? Frequencies? Top-down responsibilities
Airports	Runways
Weather	Turbulence, CB Activity, SIGMETs Avoidance Winds Holding
Non-Standard Info	Flow restrictions (e.g., MDI) Amended or cancelled standing coordination Military Activity
Situation	Transfer of TAGs Coordinated traffic

CHAPTER 6 TOP-DOWN COVERAGE

In the absence of the local ATC, the responsibility for top-down control is determined as follows:

ID	Sector/Position
TLV	Tel-Aviv Bandbox
TLV_D	Tel-Aviv Departures
TLV_A	Tel-Aviv Arrivals

BGN_A
BGN_D
BGN_T
PLT
PLT_W
PLT_E
STC

Ben Gurion Arrivals
Ben Gurion Departures
Ben Gurion TMA
Pluto
Pluto West
Pluto East
South

Aerodromes

Top-Down Priority (Left to Right, High to low)

Ben Gurion (LLBG)
Eilat (LLER)
Rosh Pina (LLIB)
Haifa (LLHA)
Herzelia (LLHZ)

BGN_D - TLV_D - TLV
STC - TLV
PLT_E - PLT - TLV_A - TLV
PLT_W - PLT - TLV_A - TLV
BGN_A - BGN_D - PLT_W - PLT - TLV_A - TLV

CHAPTER 7 CIVIL/MILITARY PROCEDURES

Procedures relevant to multiple sectors are contained in this Chapter.

7.1 Apolo military control

To give a response to the following increase in mil TFC in the LLLL FIR, and to support the vIAF VSOA VATIL started applying LLMA c/s "APPOLO" and their splits "LIBA" for the north control and "SHANON" for the south control, as shown in the picture

Apolo control - Bandboxing/Splitting Procedures

LLMA_CTR "Apolo" 122.900 Mhz	LLMA_N_CTR "Liba" 132.850 Mhz
Bandbox	LLMA_S_CTR "Shanon" 122.900 Mhz

7.2 Military Route Corridors

7.2.1 General Procedures

Military corridors are established to enable the transit of the ATS route structure by Military traffic

7.2.1.1 Apolo control online

When Apolo control is online, they will coordinate with the relevant ACC controller to update on transit in the corridor or closure of civil airspace (as explained in each ACC).

It is both Apolo control and the relevant ACC requirement to maintain separation from the corridor or the T\A; the priority is for military or "National Mission."

7.2.1.2 Apolo control offline

When Apolo control is offline, aircraft/formations wishing to transit a corridor will call the local ACC (Pluto\South\Tel-Aviv) at least 5 minutes prior to transit, while setting the V-LARA application as required. Traffic should be identified, and Mode C verified, and may be offered a service outside of the corridor or Training Area, depending on workload or knowledge.

Clearance should be in the following format:

"C/S Follow the Corridor at an altitude of XXXft report entering the area."

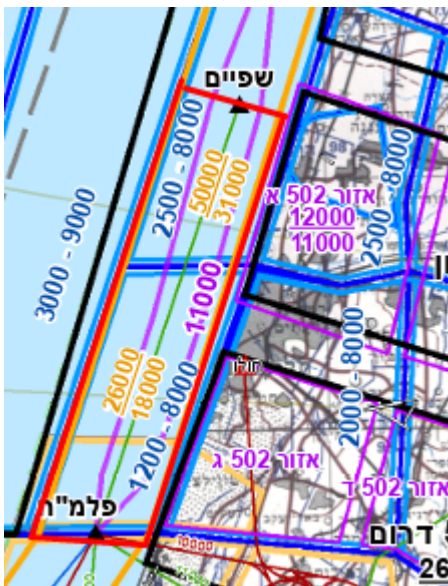
7.2.2 Sea corridor "Derech Ha-YAM" (מיה ירד)

highlighted in red

Apolo control Sector: Liba

Civil Sector: Pluto\Tel-Aviv\BGN TMA\South

Transit Altitude: 12000ft - FL500 (With exception to BGN TMA, which is split as per the following photo), for transit in lower altitude, Apolo will request deligation from Tel-Aviv ACC



7.2.3 Netofa corridor "Derech Netofa" (הפוטנ ירד)

highlighted in blue

Apolo control Sector: Liba

Civil Sector: Pluto

Transit Altitude: 12000ft - 30000ft

7.2.4 Galil corridor

highlighted in purple

Apolo control Sector: Liba

Civil Sector: Pluto

Transit Altitude: 12000ft - FL500

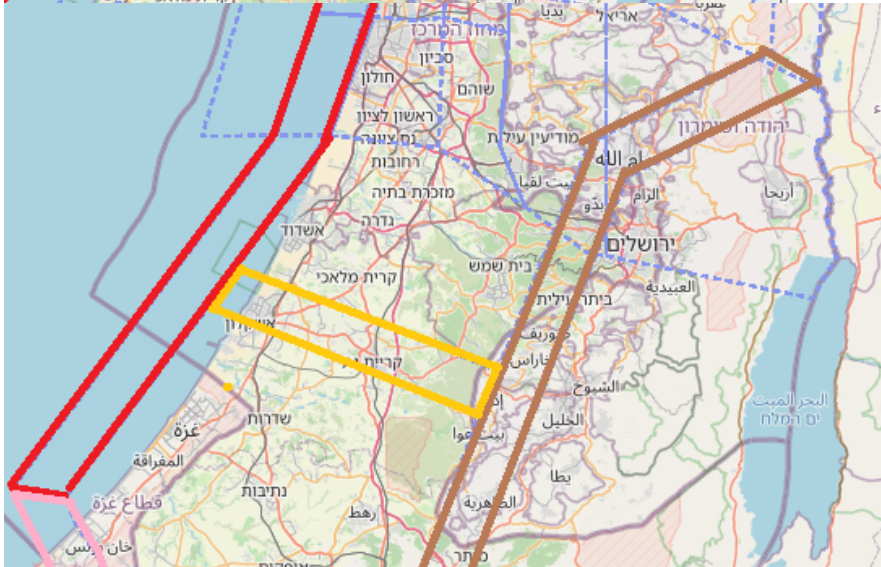
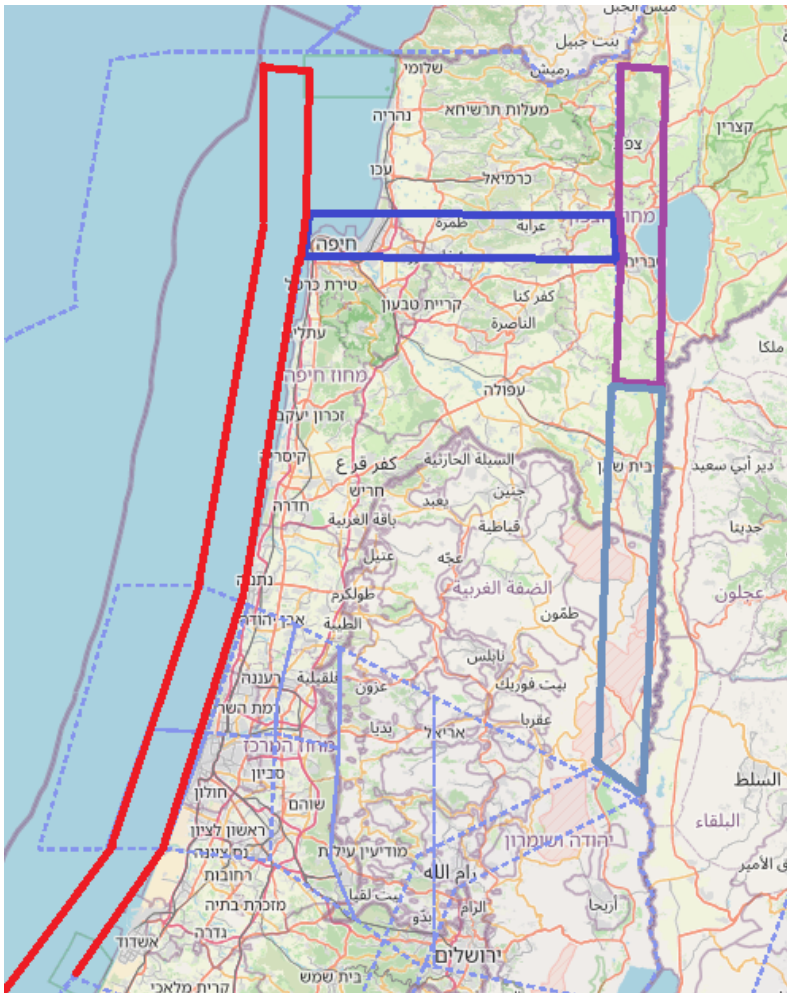
7.2.5 Bikaa corridor "Derech Bikaa" (העקבה ךרד)

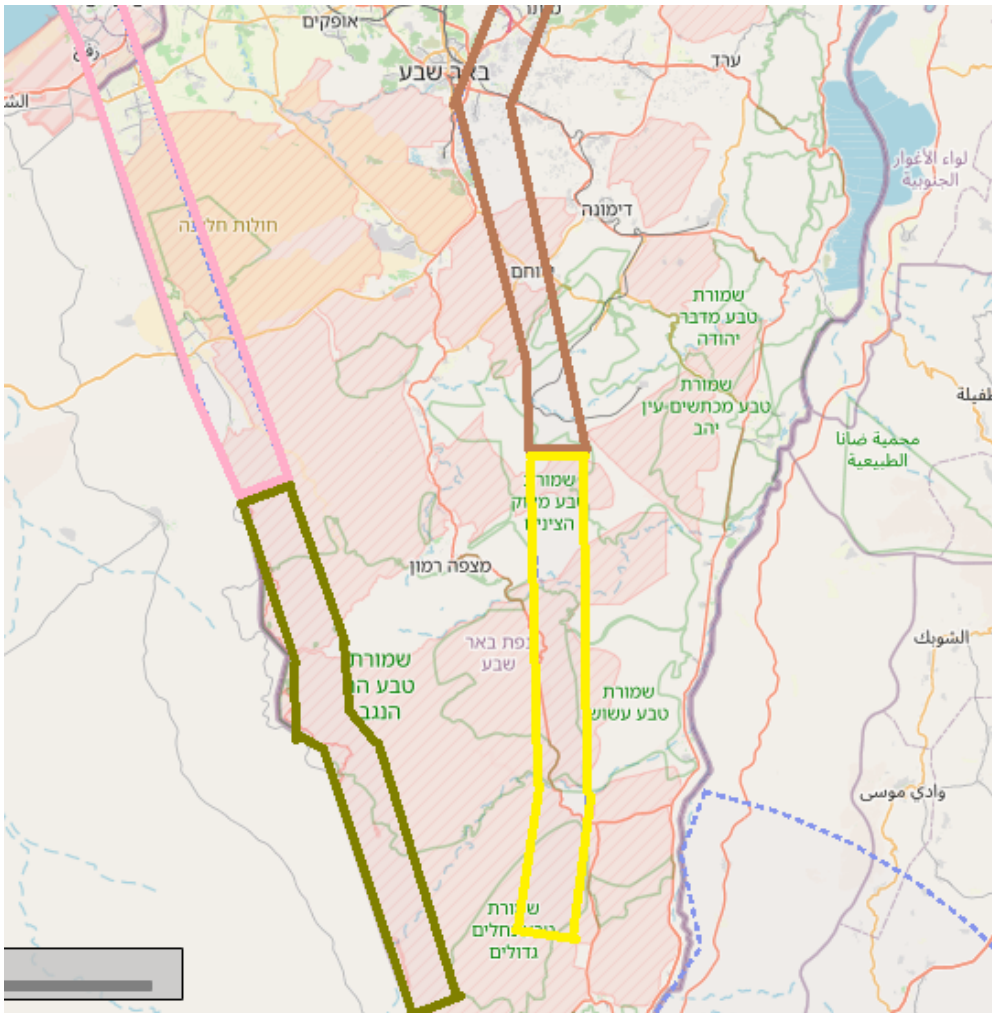
highlighted in steel blue

Apolo control Sector: Liba

Civil Sector: Pluto

Transit Altitude: 12000ft - FL500





7.2.6 Hahhar corridor "Derech Hahhar" (רהה ךרד)

highlighted in brown

Apolo control Sector: Liba\Shanon

Civil Sector: Pluto\South\Tel-Aviv

Transit Altitude: 12000ft - FL500 (south of BGN-TMA), 18000ft - 26000ft (Above BGN-TMA)

7.2.7 Hahhar Hanistar corridor "Derech Hahhar Hanistar" (רתסנה רהה ךרד)

highlighted in yellow

Apolo control Sector: Shanon

Civil Sector: South

Transit Altitude: 8000ft - 11000ft

7.2.8 Plugot corridor "Derech Plugot" (תוגולפ ךרד)

highlighted in desert yellow

Apolo control Sector: Shanon

Civil Sector: South

Transit Altitude: 12000ft - FL500

7.2.9 Hanegev corridor "Derech Hanegev" (בגנה ךרד)

highlighted in pink

Apolo control Sector: Shanon

Civil Sector: South

Transit Altitude: 12000ft - FL500

7.2.10 Hanegev Hamurhevet corridor "Derech Hanegev Hamurhevet" (תבחרומה בגנה ךרד)

highlighted in Olive

Apolo control Sector: Shanon

Civil Sector: South

Transit Altitude: 12000ft - FL500

Chapter 1 - General Operation Procedures

1.1 Sectors and Sector Groups

Tel Aviv control manages en route traffic in the Tel Aviv (LLLL) FIR.

Israeli airspace is divided into three main sector groups based on their geographical position.

- **South control:** Southbound of LLBG TMA
- **Tel Aviv control:** Over the sea for International flights
- **Pluto control:** over land north of the LLBG TMA

VATSIM Callsign	Radio C/S	Group	Frequency
LLLL_CTR	Tel Aviv Control	Tel Aviv	121.400
LLLL_D_CTR	Tel Aviv Control	Tel Aviv	122.950
LLLL_A_CTR	Tel Aviv Control	Tel Aviv	121.400
LLLL_E_CTR	Tel Aviv Control	Tel Aviv	132.025
LLSC_CTR	South Control	South	120.900
LLGV_CTR	Hagav	South	128.350
LLGV_N_CTR	Hagav North	South	128.350
LLGV_S_CTR	Hagav South	South	121.150
LLPT_CTR	Pluto	Pluto	119.150
LLPT_W_CTR	Pluto West	Pluto	119.150
LLPT_E_CTR	Pluto East	Pluto	134.650

1.2 LLLL Bandboxing/Splitting

The table below shows the three main groups splitting proceduresa, including ownership of sectors.

LLLL_D_CTR (122.950)	LLLL_D_CTR (122.950)	LLLL_CTR (121.400)	LLLL_CTR (121.400)
LLLL_A_CTR (121.400)			
LLLL_E_CTR (132.025)			
LLPT_W_CTR (119.150)		LLPT_CTR (119.150)	
LLPT_E_CTR (134.650)			
LLGV_N_CTR (128.350)	LLGV_CTR (128.350)	LLSC_CTR (120.900)	
LLGV_S_CTR (121.150)			
LLSC_CTR (120.900)			

Annex A | Standard Instrument Arrivals (STARs)

A01. Ben Gurion (LLBG)

Route	Arrival RWY \ TRANS	Designator
ZUKKO KONFO AMMOS VETEK BG305 BG304		VETEK 1A
AMMIT SIVAK TOMAL ADLOD GINTU HADAS BG306 BG304	ILS30 \ BG304	AMMIT 2E
SALAM ADLOD GINTU HADAS BG306 BG304		SALAM 2E
ZUKKO KONFO NINET DIRAN GODED LIMKO	ILS12 \ GODED	GODED2
SALAM GATVU GEMDA BGN	ILS12 \ BGN	SALAM 2B
AMMIT SIVAK TOMAL GATVU GEMDA BGN		AMMIT 1B
ZUKKO KONFO AMMOS VETEK DIVLA TADOV		AMMOS 1A
ZUKKO KONFO AMMOS VETEK BAGAG PITAT DIVLA TADOV	ILS21 \ TADOV	AMMOS 1B
SALAM GATVU GEMDA SIFON YAMIT TADOV	ILS26 \ TADOV	SALAM 3A
AMMIT SIVAK TOMAL GATVU GEMDA SIFON YAMIT TADOV		AMMIT 2A
ZUKKO KONFO PURLA BAVLI TAPUZ	ILS08 \ PURLA	PURLA 1

A02. Eilat Ramon (LLBG)

Route	Arrival RWY \ TRANS	Designator
NURIT RASAF ESHEL RAM	ILS01 \ RAM	NURIT 1D

Chapter 2 - South control

2.1 Area of Responsibility

South control (LLSC_CTR) is the south sector of LLLL FIR, covering from the south line of TMA LLBG down to Eilat city.

Also in this sector are seven AF bases and a few uncontrolled airstrips. The sector is going from ground level to unlimited (if mil-certified, if not until FL370).

The sector splits mainly into Flights over the ATS route (mainly at the J10 airway, etc.) The parent unit, as shown above, is LLSC_CTR.

South control is operating on 120.900

2.2 General Operating Procedures

2.2.1 Common ATS traffic routing

The main traffic is either northbound or southbound, with little to no east-westbound. The traffic normally passes through the J10 airway. In the sector are some shortcuts which may be approved under the following conditions

Range	Condition for approval	Pre-Approval condition	Identification
ZFR-MZD	none, approved and plannable	Filed in FPL	T94
BIRIM - NURIT	1. Friday/Saturday 2. No military traffic active within the Q30 range Or 1. Approval from "Apollo"\"Shanon" MIL-ACC	vIAF flight (VSOA remark)	Q30
ASSIF-OBako	1. Clear the area within the shortcut airway with no military traffic active (TSA Area 8) Or 1. Approval from "applo"\"Shanon" if connected	CDR 2 - ONLY BY ATC	T85
ASSIF-OBako			T80
ASSIF-MZD			T84

Remark: The bold identification may indicate the most preferred shortcuts for traffic management

2.2.2 Route restrictions

Due to a high amount of traffic in the vicinity of the south sector, most of the airways are limited to the upper limit of FL370 and the lower limit of 5000 to 6000ft.

2.2.2 ATS controlling restrictions

Due to a small maneuver area within the J10 corridor, the controller may **not** vector any traffic; instead, the controller **MAY** give direct instructions to any FIX over the route/sector.

Vectors shall be the last resort in any situation for IFR traffic

2.2.2 Initial Route Clearance and transfer of control (IFR)

South control shall issue route clearance (including STARs) in accordance with GEN 1.1. See Annex A for a list of

2.3 Standing Agreements

2.3.1 Tel-Aviv (LLLL)

Separation: Each transfer of control will be with at least 10NM of separation between two planes with the same performance. If the lateral separation cannot be accomplished, a vertical separation of 1000ft (and steady) is required.

Altitude hold: When control is transferred to Tel Aviv while the traffic is on J10 airway, Tel-Aviv will transfer the traffic when holding coordinated altitude until leaving the said airway.

2.3.1.1 From Tel Aviv to South control

Altitude agreement

To	Agreement	Conditions
LLER\LLOV	29,000 ft at SIVAK	20NM lateral separation (RWY19) 30NM lateral separation (RWY01)
LLNV	19,000 ft at SIVAK	

Transfer of control

Position	Conditions
DONAG	
SIVAK	
ASSIF	If "ASSIF Shortcut" is active

2.3.1.2 From South to Tel Aviv control

Altitude agreement

From	Agreement	Conditions
LLER\LLOV	28,000 ft at TOMAL	Reporting 10 minutes in advance of transfer
LLNV	12,000 ft at TOMAL	

Transfer of control

Position	Conditions
YOLCO	
SIVAK	

2.3.2 Ben Gurion (LLBG)

Minimal Segregation zone: Both South control and Ben-Gurion will maintain a segregation zone of 2.5NM of the south border of Ben Gurion TMA (except for J10 airway or transfer of control)

WT separation from the segregation zone: When traffic that requires WT radar separation, each station will maintain half the required separation from the South border of Ben Gurion TMA

ASSIF&J10 routing: When the ASSIF shortcut is active, the J10 airway north of the join position of the shortcut will be assumed as a Northbound airway, while the approved shortcut will be assumed as a southbound airway

2.3.2.1 South to Ben Gurion

Altitude agreement

From	Agreement	Conditions
ASSIF	10,000/8,000 at ASSIF	
AMMIT	10,000/8,000 at SIVAK	

Transfer of control:

Position	Conditions
5NM Before AMMIT	Clear of conflict
10NM Before ASSIF	If "ASSIF Shortcut" is active and there is an entry from ASSIF

STAR allocation: South control will allocate STAR to Ben Gurion, as explained in ANNEX A. When **no STAR** is available, the south control may route the traffic with one of the following options:

1. TOMAL - ADLOD
2. ASSIF - ADLOD (If requested by Pilot or from Ben Gurion UNIT) and with the following conditions:
 - a. The route to ASSIF is Clear down to 8000ft
 - b. The traffic will be transferred as soon as possible

2.3.2.2 Ben Gurion to South

Altitude agreement

From	Agreement	Conditions
LLBG\LLHZ	9,000 ft at TOMAL/ASSIF 8000 ft at BIRIM	*IAS of 250kts *Stedy at the requested Altitude

Required Separation:

Two international flights: When two planes are flying southbound for an international flight, they may be transferred with 10 minutes of separation.

Two LLER inbound flights: The two airplanes shall be separated by at least 5 minutes when in the same performance group.

Any other flights:

General	Lateral	Vertical	Other instructions
---------	---------	----------	--------------------

Following with same or reduced speed from precciding	5NM	No requirement	No need
Following with faster speed from precciding	15NM or greater	No requirement	No need
	Less than 15NM	1000ft or greater	No need
		none	Coordination is required

Transfer of control:

Position	Conditions
TOMAL	Clear of conflict
ASSIF	If "ASSIF Shortcut" is active and Holding Altitude as instructed
BIRIM	If "Q30 Shortcut" is active and Holding Altitude as instructed

2.3.3 Nevatim (LLNV)

2.3.3.1 Nevatim to South

Altitude agreement

From	Agreement	Conditions
MZD (Northbound)	↑ 6000 at MZD	
KINAR (Southbound)	↑ 7000 at KINAR	

Transfer of control

Position	Conditions
10NM Before ENOKO	Clear of conflict

2.3.3.2 South to Nevatim

Altitude agreement

From	Agreement	Transfer
South of KINAR	6,000 ft at MALUQ	
North of MZD	6000 ft at MZD	

Transfer of control

Position	Conditions
2NM south of SUKOT	From the south
MZD	From the north

STAR allocation: South control may not allocate any STAR to Nevatim

2.3.3 Eilat (LLER)

STAR allocation: South control will allocate STAR to Eilat, as explained in ANNEX A.

2.3.3.1 From Eilat to South

Altitude agreement:

From	Agreement	Conditions
LLER SID	↑ 5000ft	RWY01
	↑ 8000ft	RWY19

Transfer of control:

Position	Conditions
Airborne passing 3500ft	RWY 01 in use
Facing North	RWY19 in use

2.3.3.2 From South to Eilat

Altitude agreement:

From	Agreement	Conditions
SHANI	6000ft at NURIT	RWY01
	6000ft at ESHEL	ADIVI-APP RWY01
	5000ft at NURIT	RWY19

Transfer of control:

Position	Conditions
SHANI	

Approval of RNP-VIS (ADIVI\NURIT): May be approved for Israeli airline only with the request of the flight crew **ONLY**

2.4 Coordination and Procedures with Adjacent Units, Sectors, and Airfields

2.4.1 Tel Aviv

- **Inbound traffic to Nevatim:** Should be coordinated to be transferred TOMAL at a steady altitude of 17,000ft
- **Inbound Traffic to SIVAK:** Tel Aviv may be reported in advance of 10 minutes before crossing SIVAK
- **Outbound Traffic From Nevatim:** South may coordinate climbing to 14,000ft

2.4.2 Ben Gurion

- Crossing SIVAK at 6000ft may be coordinated (For traffic entering LLBG_TMA)
- Entry to South from BIRIM may be coordinated and will be approved at an altitude of 8,000ft only

2.4.3 Nevation

- **Release of departing traffic:** Nevatim is required to request release from South control twice for each traffic, once 5 minutes before departure and once 1 minute before departure

2.4.4 Shanon\Hagav\Appolo

When active, the following coordinations are required

- Each holding pattern on J10 airway will need to be approved via MIL-control
 - Each climb before entering J10 airway will need to be approved via MIL-control
 - Each departure from LLRM will be coordinated with South control
- The best practise is to approve ZFR\KINAR (due to active airways)

2.5 En-route Holding Procedures

MZD Hold

When a high amount of traffic is inbound to LLBG\OJAI, and the LLBG_APP is not yet able to receive it South control may use this hold to regulate the traffic and give better separation

VOR hold, 1.5- minute legs
001°
Left hand
10,000-37,000
Maximum 240 kts IAS

MZD
Axis
Direction
Holding Altitude
Speed

ZFR Hold

When the time separation to LLER is too tight, this pattern and the next one may be used for sequencing

VOR hold, 1.5- minute legs
199°
Right hand
6,000-34,000
Maximum 265 kts IAS

ZFR
Axis
Direction
Holding Altitude
Speed

Shayo Hold

The second holding is used to moderate LLER traffic, lower in priority due to RNAV requirement and a higher lower limit that will require a steep descent.

RNAV hold, 1.5- minute legs
185°
Right hand
10,000-37,000
Maximum 265 kts IAS

SHAYO
Axis
Direction
Holding Altitude
Speed

Chapter 3 - North control (Tel-Aviv ACC)

3.1 Area of Responsibility

North control (LLLL_CTR) is the North sector of LLLL FIR, covering from the south line of TMA LLBG up to the northern border of the FIR above the coast and above the TMA.

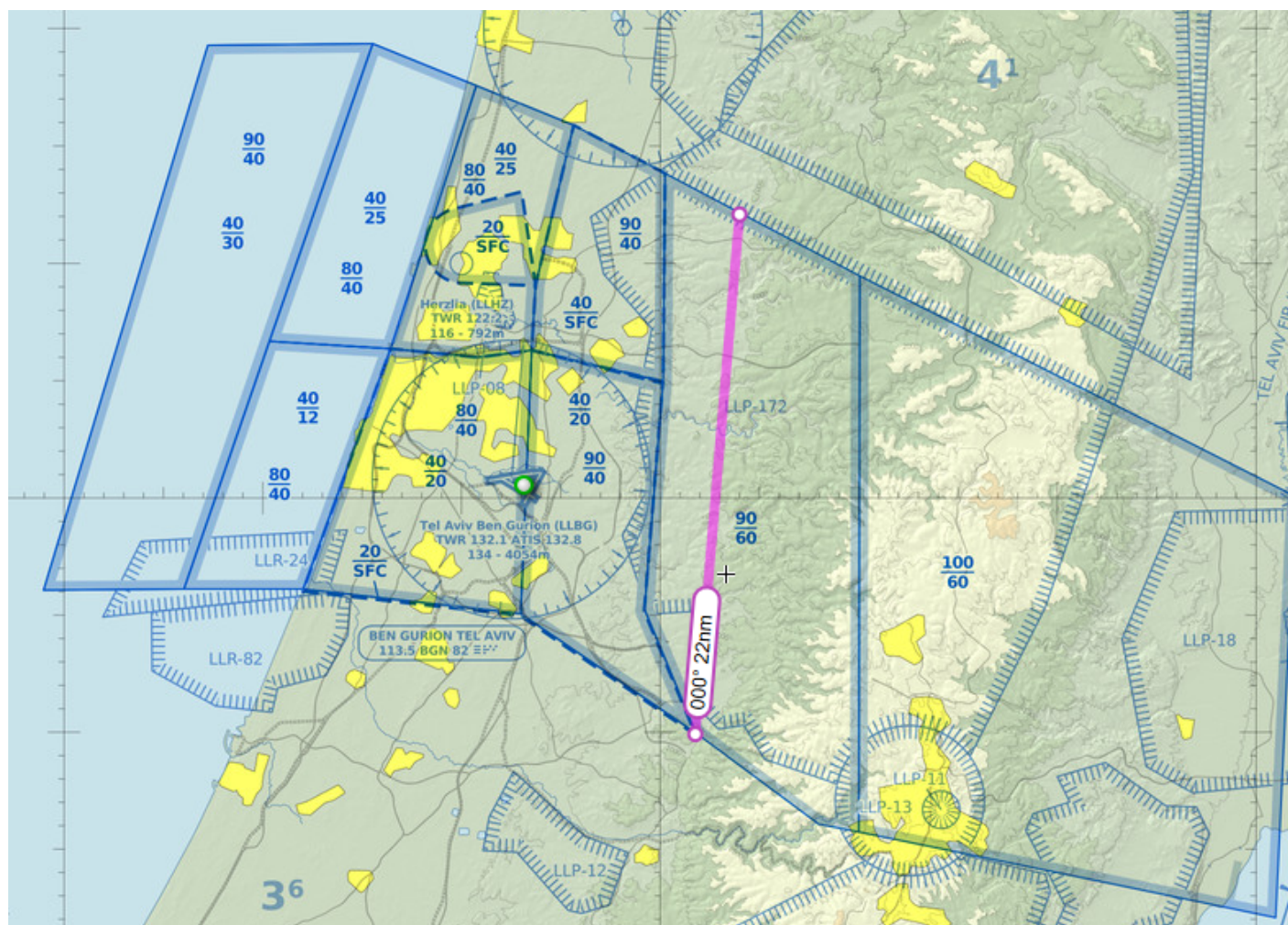
The sector is splitting into 3 main sectors: Inbound to LLBG\LLHA\OJAI (LLLL_A_CTR); outbound of LLBG\LLHA\OJAI (LLLL_D_CTR); Crossing traffic at the sector.

Also, there is an area between N71 airway and zukko, "The triangle which is in deligation."

3.2.1 Route Restrictions

General	Pre-Approval condition	Explanation	Range
OVR 28-29	Approval (If connected) From MIL-Control	Clear of conflict	TALMI L53 SUVAS ZUKKO N134 SALAM
OVR 35 -UNL	Approval (If connected) From MIL-Control	Clear of conflict	TALMI L53 SUVAS ZUKKO N134 SALAM
SID PATZAEI	Coordination from MIL- CONTROL	When activated from MIL- Control 14000ft-16000ft East Block of TMA	Maintain 12,000ft for inbound from AMMAN to LLLL
NAT SHORCUP	none	Approval per traffic from MIL-control	Lateral crossing MERVA H14 NAT Z91 SALAM
9K-13K	none	Request for closure from military control	Coastline -> TAPUZ
YAM	V-LARA without requests	Area is clear	MERVA
Jordanian East	Coordination from MIL- CONTROL	Request for closure from military control	11000ft-15,000ft
Jordanian West	Coordination from MIL- CONTROL		14,000ft-16,000ft

Figure 1: East-West Jordanian closure



3.3 Standing Agreements

3.3.1 Haifa (LLHA)

3.3.1.1 from Haifa to Tel-Aviv

Altitude agreement:

From	Agreement	Conditions
GALIM	↑ 3000ft at GALIM to 5000ft	Clear of conflict (Option A)
	5000ft at GALIM	Clear of conflict (Option B)

Transfer of control:

Position	Conditions
GALIM	Steady and clear of conflict

3.3.1.2 from Tel-Aviv to Haifa

Altitude agreement:

From	Agreement	Conditions
GALIM	5000ft at GALIM	Clear of conflict

Transfer of control:

Position	Conditions
10NM Before GALIM	↓ 5000ft

3.3.2 Ben Gurion (LLBG)

3.3.2.1 From Ben Gurion to Tel-Aviv

STAR allocation: Tel Aviv control will allocate STAR to Ben Gurion, as explained in ANNEX A.

Altitude agreement:

From	Agreement	Conditions
LLBG SID	↑ 8000ft	Clear of conflict

Transfer of control:

Position	Conditions
Airborne passing 3500ft	VIA SID

3.3.2.2 From Tel-Aviv to Ben Gurion

Altitude agreement:

TO	Agreement	Conditions
LLBG	↓ 5000ft	RWY26/21/12/08

↓ 6000ft

RWY30

Transfer of control:

Position	Conditions
2NM before AMMOS	RWY26/30/21
2NM before PURLA	RWY08
2NM before NINET	RWY12

3.3.3 South Control

Separation: Each transfer of control will be with at least 10NM of separation between two planes with the same performance. If the lateral separation cannot be accomplished, a vertical separation of 1000ft (and steady) is required.

Altitude hold: When control is transferred to Tel Aviv while the traffic is on J10 airway, Tel-Aviv will transfer the traffic when holding coordinated altitude until leaving the said airway.

3.3.3.1 From Tel Aviv to South control

Altitude agreement

To	Agreement	Conditions
LLER\LLOV	29,000 ft at SIVAK	20NM lateral separation (RWY19) 30NM lateral separation (RWY01)
LLNV	19,000 ft at SIVAK	

Transfer of control

Position	Conditions
DONAG SIVAK ASSIF	If "ASSIF Shortcut" is active

3.3.3.2 From South to Tel Aviv control

Altitude agreement

From	Agreement	Conditions
LLER\LLOV	28,000 ft at TOMAL	Reporting 10 minutes in advance of transfer
LLNV	12,000 ft at TOMAL	

Transfer of control

Position	Conditions
YOLCO SIVAK	

3.3.4 Pluto

Inbound to LLHA: There are 4 main ways to enter Haifa, as will be coordinated with PLUTO
Pluto shall perform tactical clearances to avoid conflict.

- Option A: YAM is **open**, and the Sea military corridor is **open**: Entry via GALIM 3000ft
- Option B: YAM is **open**, and the Sea military corridor is **active**: Entry via GALIM 5000ft
- Option c: YAM is **active**, and the Sea military corridor is **closed**: Entry via GALIM 3000ft and MERVA 5000ft
- Option c: YAM is **active**, and the Sea military corridor is **active**: Entry via GALIM 5000ft and MERVA 5000ft

3.3.4 Nicosia

3.3.4.1 From Tel Aviv to Nicosia

Altitude agreement

Conditions	Agreement	From
	Clearance limit FL260 or below	LLBG / LLHA
	Clearance limit FL320	OJAI / OJAM / LLER / LLNV
	Clearance limit is RFL	Any other outbound

Transfer of control

Conditions	Position
Westbound traffic release	SUVAS
Northbound traffic release	FIR Boundaries

3.3.4.2 From Nicosia to Tel Aviv

Altitude agreement

Conditions	Agreement	From
(LLBG\LLER)	↓ FL210 (No lower than FL210)	Eastbound
(LLBG\LLER)	↓ FL270 (No lower than FL270)	Southbound
	↓ 8000ft (No lower than 8000ft)	LLHA Inbound
	RFL (FL330 or above)	Overflight

Transfer of control

Conditions	Position
Traffic is released to Tel-Aviv ACC as soon as crossing	Crossing N71 Airway

Note: All traffic from Nicosia FIR to LLLL FIR should be transferred to LLLL_CTR (or LLLL_E_CTR for overflights if LLLL_CTR is offline. If both offline, LLBG_APP for arrivals. If all offline, Unicom).

Spacing & Overflow Agreements:

- **Separation:** Two or more aircraft with less than 15NM separation at the same direction will be separated by vertical separation of 2,000 ft.
- **Overflow:** If Tel-Aviv ACC declares overflow, Nicosia will hold traffic between FL210 to FL340 at **AZERE** (Right, Inbd 172, 1.5 min, max IAS 300kts) or **PIKOG** (Left, Inbd 123, 1.5 min, max IAS 300kts). Transfer of control occurs only *after* leaving the hold.

3.3.5 Amaan

- All traffic shall hold cleared altitude 5NM Prior to transfer [unless said otherwise]
- All traffic shall be separated with lateral separation of 10NM at least unless maintaining vertical separation.
- When transfer of control is performed the traffic shall be with 45 deg of clear area until entering the receiving units' airspace
- Transfer of control will be 5NM before SALAM while holding cleared altitude

3.3.5.1 From Tel Aviv to Amman

Inbound	Altitude	Condition
SALAM (enroute)	FL360 or above	
	28,000ft ALT holding	
OJAI	15,000-11,000	• Depends on traffic at LLLL airspace • Until SALAM the traffic shall maintain LLBG-QNH

3.3.5.2 From Amman to Tel Aviv

Inbound	Altitude	Condition
MOUAB	FL350 or above	
Departing TRFC	12,000ft at MOUAB Cleared ↑ 14,000 Higher levels maybe coordinated especially when 08's OJAI ops or 06 OJAM ops in use. Maximum allowable is per ATC (usually FL280)	

3.4 Coordination and Procedures with Adjacent Units, Sectors, and Airfields

3.4.1 Haifa (LLHA)

Departing from LLHA:

- Before start-up clearance, LLHA will request SSQ code for the departing traffic
- Haifa will request RELEASE (10 min) from Tel-Aviv

Inbound to LLHA:

- Tel-Aviv will update Haifa more than 4 min prior to arrival about the ETA to position GALIM
- Tel-Aviv will update Haifa If the inbound traffic is **unable** to cancel IFR.

3.4.2 Ben Gurion (LLBG)

3.4.3 South (LLSC)

- **Inbound traffic to Nevatim:** Should be coordinated to be transferred TOMAL at a steady altitude of 17,000ft
- **Inbound Traffic to SIVAK:** Tel Aviv may be reported in advance of 10 minutes before crossing SIVAK
- **Outbound Traffic From Nevatim:** South may coordinate climbing to 14,000ft

3.4.4 Pluto (LLPT)

- Each flight departing from PLUTO airspace toward Tel-Aviv airspace shall be coordinated in advance

3.4.4 Nicosia (LCCC)

Departing from Tel-Aviv (Outbound to Nicosia):

- **Direct Routings:** Tel Aviv ACC is authorized to give direct routing to **VELOX** without prior coordination.
- **Coordination Requirement:** Direct routings to **any other waypoints** require prior coordination with NICOSIA ACC.

Inbound to Tel-Aviv (Overflights from Nicosia):

- **Altitude Coordination:** Overflight traffic (East/South bound) that needs to cross N71 Airway **below FL330** must be coordinated in advance with LLLL FIR.

General Routing Procedures:

- Traffic between Nicosia and Tel Aviv FIRs should route via the standard directional waypoints (Westbound: SUVAS-TEZAK/STPA | Northbound: DAFNA/MERVA-VELOX/DESPO | Eastbound: IDAKU/LEDRA/BIRES-PIKOG/KEREN | Southbound: ZOMBA-AZERE/MERVA) **unless coordinated otherwise** between the controllers in charge.

3.3.5 Amaan

- If traffic is unable to hold cleared altitude 5NM before transfer of control the adjacent unit shall be updated
- Inbound to Amman ACC (Enroute): Any traffic crossing below FL350 shall be coordinated

- Inbound to Tel Aviv ACC (Enroute): Any traffic crossing below FL360 shall be coordinated [Except for FL280]
 - FL280 may be closed due to MIL corridor, in this case Tel Aviv ACC will update Amman ACC with 10 min prior for closure. In that situation the block altitude of FL280 need to be coordinated.

3.5 En-route Holding Procedures

AZERE Hold

One of the two main holding patterns within the "Triangle" area

RNAV hold, 1.5- minute legs	AZERE
172°	Axis
Right hand	Direction
21,000-34,000	Holding Altitude
Maximum 300 kts IAS	Speed

PIKOG Hold

When the time separation to LLER is too tight, this pattern and the next one may be used for sequencing

RNAV hold, 1.5- minute legs	PIKOG
123°	Axis
Left hand	Direction
21,000-34,000	Holding Altitude
Maximum 300 kts IAS	Speed

Chapter 4 - Pluto control [WIP]

4.1 Area of Responsibility

4.2 General Operating Procedures

4.3 Standing Agreements

4.3.1 Haifa (LLHA)

Segregation zone: All military traffic shall maintain at least 0.5NM from LLHA_CTR unless inbound to the airport (Except from Haifa Training Area and the path between HASID-GILAM)

Transfer: All transfers of control and altitude agreements are per the CVFR\LSA\Helicopter Routes active charts

4.4 Coordination and Procedures with Adjacent Units, Sectors, and Airfields

4.4.1 Haifa

- Pluto shall coordinate any traffic that will cross above LLHA CTR at 3500 or 4000ft or below. In that situation, Haifa may lower its CTR to perform the flight above Haifa CTR
- All low altitude flights inbound or Outbound of Haifa CTR require coordination
- When "Mekomit" (Local) flight is active, Haifa shall coordinate with Pluto

GALIM-DAROM

- Any traffic flying northbound shall be coordinated with Haifa when passing at 1500ft
- In case traffic is required to join the path, Pluto will coordinate DAROM at an altitude of 2500ft
- Pluto is required to coordinate with any fast-moving aircraft with Haifa Tower
- In case there are two planes flying southbound, and the first one is at 2000ft while the second is at 1000ft Haifa shall coordinate with Pluto to avoid conflicts.

AAKKO

- Any traffic flying northbound shall be coordinated with Pluto when passing at 1500ft
- Any traffic flying northbound shall be coordinated with Haifa when passing at 2000ft

GILAM

- Any traffic flying Westbound shall be coordinated with Haifa when passing at 3000ft or at 2000ft

HASID

- Any traffic flying shall be coordinated with the receiving unit when passing at 3000ft or at 2500ft

Traning Areas

- Pluto may take control over the training areas; in that case, transfer of control will be at AFFEK

4.5 En-route Holding Procedures

VATIL - CVACC || LOA

Letter of Agreement between CvACC (LCCC) and VATIL (LLLL)

-

General

1.1 Purpose and Scope:

The purpose of this Letter of Agreement is to define the coordination procedures to be applied between NICOSIA ACC[\[1\]](#) and TEL AVIV ACC[\[2\]](#) when providing ATS to GAT[\[3\]](#) and OAT[\[4\]](#).

The procedures contained in this operational letter of agreement that supplement or detail, when so required, the procedures contained in documents of the two States, ICAO and Eurocontrol shall be applied to all aircraft that cross the common boundary of the Nicosia and Tel Aviv FIRs.

1.2 Operational Status

The two ATS units concerned shall keep each other advised of any changes in the operational status of their facilities and navigational aids, which may affect the procedures specified in this Letter of Agreement. Information concerning the flow of traffic such as weather, overload, navigation aid or any other relevant information shall be passed on the concerned Unit.

Geographical responsibility for the provision of ATS.

2.1 Areas of responsibility

2.1.1 NICOSIA ACC

Lateral limits: As published in AIP CYPRUS

Vertical limits: As published in AIP CYPRUS

2.1.2 TEL AVIV ACC

Lateral limits: As published in AIP State of ISRAEL

Vertical limits: As published in AIP State of ISRAEL

2.2 Delegation of The responsibility for The Provision of ATS

Routing: Traffic between Nicosia and Tel Aviv FIRs should route as indicated below, or as coordinated between the controllers in charge

(Example: direct DESPO/STEPA/VELOX).

a) Westbound to Nicosia FIR:

- SUVAS - TEZAK
- SUVAS - STEPA

b) Northbound to Nicosia FIR:

- DAFNA - VELOX
- MERVVA - VELOX/DESPO

c) Eastbound to Tel Aviv FIR:

- IDAKU - PIKOG
- LEDRA - PIKOG
- BIRES- PIKOG
- BIRES - KEREN[\[5\]](#)

d) Southbound to Tel Aviv FIR:

- ZOMBA - AZERE
- ZOMBA - MERVVA[\[6\]](#)

Procedures for coronations

3.1 Tel-Aviv clearance limit outbound flight from LLBG/LLHA to Nicosia FIR

- a. All outbounds flights, Tel-Aviv ACC Clearance limits **FL260** or Below

- b. Directs may be given by Tel Aviv ACC to VELOX without prior coordination, any other waypoints require coordination with NICOSIA ACC.

3.2 Overflight to Nicosia FIR (West/North bound)

- a. All outbound traffic from OJAI/OJAM/LLER/LLNV clearance limit is **FL320**
- b. Any other outbound traffic clearance limit is RFL

3.3 Nicosia clearance limit Inbound flights to LLBG/LLHA/LLER

- a. **Eastbound traffic:** Nicosia ACC shall clear traffic decent to **FL210** before crossing N71 Airway, subject to traffic flow and separation. But no lower than **FL210**
- b. **Southbound traffic:** Nicosia ACC shall clear traffic decent to **FL270** before crossing N71 Airway, subject to traffic flow and separation. But no lower than **FL270**
- c. **LLHA:** Nicosia ACC shall clear traffic decent to **8000ft** before crossing 70NM before MERVA[7], subject to traffic flow and separation. But no lower than **8000ft**
- d. **Best Practice:** All inbound traffic recommended crossing N71 Airway **FL310** or below
- e. Two or more aircrafts with less than 15NM separation at the same direction, will be separated by vertical separation of **2,000 ft** (e.g. first aircraft descending to **FL210**, second aircraft to **FL230**)
- f. **Overflow:** In the condition that Tel-Aviv ACC declares overflow, the default practice shall be giving hold as published in the positions of **AZERE [8]** and **PIKOG[9]** between **FL210** to **FL340** While remaining under Nicosia ACC, the traffic will be transferred to Tel-Aviv ACC after leaving the hold.

3.4 Overflight to LLLL FIR (East/South bound)

- a. All traffic should cross N71 Airway at RFL (**FL330** or above).
 - Traffic below **FL330** must be coordinated with LLLL FIR

Transfer of Control & Communication

4.1 Release Points

Traffic release to Tel-Aviv ACC as soon as crossing [N71](#) Airway.

Westbound: Traffic release to Nicosia ACC no later than waypoint [SUVAS](#)

Northbound: As soon as possible, subject to traffic flow and potential conflicts, but no later than FIR boundaries.

4.2 Frequencies:

Nicosia ACC: 124.200 [MHz](#)

Nicosia South ACC: 124.200 [MHz](#)

Nicosia East ACC: 126.300 [MHz](#)

Tel Aviv ACC: 121.400 [MHz](#)

Tel Aviv Enroute ACC: 132.025 [MHz](#)[\[10\]](#)

4.3 Traffic Transfer

- * All traffic from LLLL FIR to Nicosia FIR should be transferred to **LCCC_CTR**
- * All traffic from Nicosia FIR to LLLL FIR should be transferred to **LLLL_CTR**
 - In case LLLL_CTR is offline, traffic bound/destination to LLBG should be transferred to **LLBG_APP**, following the same

procedures as with **LLLL_CTR**, following the same procedures as with **LLLL_CTR**

- Overflight to LLLL FIR would be passed to **LLLL_CTR** or **LLLL_E_CTR** only. In case these units are offline, **LCCC_CTR** will send the aircraft to Unicom when clear of conflict.

Validity

Last review: February 9, 2026 - Revision 1.3

[1] LCCC_CTR

[2] LLLL_CTR

[3] General Air Traffic

[4] Operational Air Traffic

[5] Intended for TFC crossing LLLL FIR (Over ben Gurion at high altitude)

[6] Intended for TFC Inbound to LLHA/LLIB or crossing LLLL FIR (Over ben Gurion at high altitude)

[7] The vicinity of VELOX/ZOMBA/DESPO.

[8] Right hold, Inbound: 172, 1.5 min, max IAS 300kts.

[9] Left hold, Inbound: 123, 1.5 min, max IAS 300kts.

[10] Overflight only

LLHZ - ???????

הילצרה ילהנ תא טרפמה ךמסמ

?Ben Gurion

GEN | General Operating Instructions

CHAPTER 1 Altimeter Setting Procedures

1.1 Altimeter Setting Procedures

1.1.1 Departing Aircraft

Departing aircraft should state the ATIS INFO letter on first contact with GND. It should be issued by the GND controller. Aircraft should be informed of any subsequent change to the QNH at the earliest opportunity.

1.1.2 Arriving / Transiting Aircraft

At or below the Transition Altitude, an aircraft's vertical position will be controlled by reference to the Ben Gurion QNH. Aircraft will be issued the QNH once cleared to descend to an altitude by Tel Aviv or Ben Gurion APP. Aircraft should be informed of any subsequent change to the QNH at the earliest opportunity.

1.1.3 Transition Altitude/Level

The Transition Altitude (in the LLLL FIR) is 18,000 feet AMSL **ABOVE THE SEA**.
When flying above land, the transition altitude is set to 35,000ft.

Note: From here on, unless otherwise specified, vertical references are measured in ft are to be assumed as altitudes AMSL.

CHAPTER 2 All Weather Operations

2.1 Low Visibility Procedures (LVP)

2.1.1 Enforcement

Pilots will be informed when these procedures are in operation by ATIS or by R/T.

ATC Low Visibility Procedures must be applied when the RVR is less than 800m (or visibility below 1200 meters).

2.1.2 Runway Visual Range (RVR)

The RVR is measured at three points along each runway: at the touchdown zone, mid-point, and stop-end. The minimum RVR that can be measured is 50 m, and the maximum is 1500 m.

Only the touchdown zone RVR value is published in METARs; the remaining two RVR values are ‘unknown’ to VATSIM network controllers. When LVP is in force, pilots should be informed of the reported RVR and any subsequent updates.

CHAPTER 3 Description of Airfield

3.1 Aerodrome Geographical Data

LLBG	ICAO Code
LON: 320034N LAT: 0345308E	Aerodrome Reference Point (ARP)
400 M from THR 30	
134 ft AMSL	Elevation
18,000ft AMSL (SEA) // 35,000ft AMSL (LAN)	Transition Altitude
2000ft (West), 5000ft (East)	Safety Altitude

3.2 ATC Communication Facilities

3.2.1 Aerodrome Control (ADC)

Callsign	Logon Callsign	Abbreviation	Frequency (MHz)
Ben-Gurion Departure Information	LLBG_D_ATIS	ATIS DEP	132.800
Ben-Gurion Arrival Information	LLBG_A_ATIS	ATIS ARR	132.500
Ben-Gurion Clearance	LLBG_DEL	DEL	121.550
Ben-Gurion Ground	LLBG_E_GND	GND East	121.950
Ben-Gurion Ground	LLBG_W_GND	GND West	121.750
Ben-Gurion Tower Arrival	LLBG_A_TWR	TWR ARR	132.100
Ben-Gurion Tower Departure	LLBG_D_TWR	TWR DEP	134.600

Note: When AIR is split (and in the absence of an ADC Supervisor), AIR South shall operate as the ADC Supervisor and is responsible for overall aerodrome operations and executive coordination with external units.

3.2.1 Approach Control (APC)

Callsign	Logon Callsign	Abbreviation	Frequency (MHz)
Ben-Gurion Approach	LLBG_D_APP	DEP	120.500
Ben-Gurion Approach	LLBG_A_APP	APP	131.100
Ben-Gurion TMA	LLBG_T_APP	TMA	119.500

3.3 Logon Order

3.3.1 Aerodrome Control

TWR DEP is the primary tower and should be opened in the first instance. Before TWR is split, RWY 21 must be in use, and there must not be a single RWY OP active.

GND West is the primary position, and after that, GND East may open, and only then BGN DEL.

3.3.2 Approach Control

DEP may be staffed at any time.

ARR may open only when DEP is staffed, when RWY 21 is in use for ARR, and when there is no single RWY OP.

TMA is last in priority to be staffed

3.4 Radio Navigation and Landing Aids

Type	Identifier	Frequency (MHz)
ILS 21	BN	109.700
ILS 30	BD	111.900
ILS 12	BG	110.300
ILS 26	BA	108.700
ILS 08	BC	110.900

CHAPTER 4 Use of Runways

4.1 Preferential Runway System

Runway 26 is the preferred runway for departure.

Runway 21 is the preferred runway for arrival during the day, but due to Noise abatement procedures & winds, there is a rotation between RWY30, RWY21, and RWY12.

At night, RWY12 is the preferred runway for ARR due to noise-abatement procedures

Backwind at or above 5KTS shall initiate a change of active ARR runway.

4.2 Change of Runway Configuration

When there is a change of runway configuration, TWR DEP shall initiate contact with DEP to agree on a last arrival and time for the runway change. DEP shall confirm with all APC stations about the change of configuration.

Based on this time, TWR DEP shall coordinate with GND\DEL as to the last departure. GND\DEL will re-clear any previously cleared aircraft that will now depart on the new runway.

TWR DEP shall inform DEP of the intended last 3 (if appropriate) departures before, and the first departure after, the runway change (callsign and routing).

DEP will inform TWR DEP when the runway change is completed.

4.3 Use of the Non-Duty Runway

Aircraft can land on the departure runway if technical or safety reasons preclude using the nominated arrival runway or to try and avoid a missed approach.

Opposite-direction departures and approaches are not permitted except in an emergency.

APC | Approach Control

Chapter 1: Area of Responsibility and Sector Organisation:

1.1 General

In this section, the following conventions for the naming of the Ben Gurion Group sector positions is adopted:

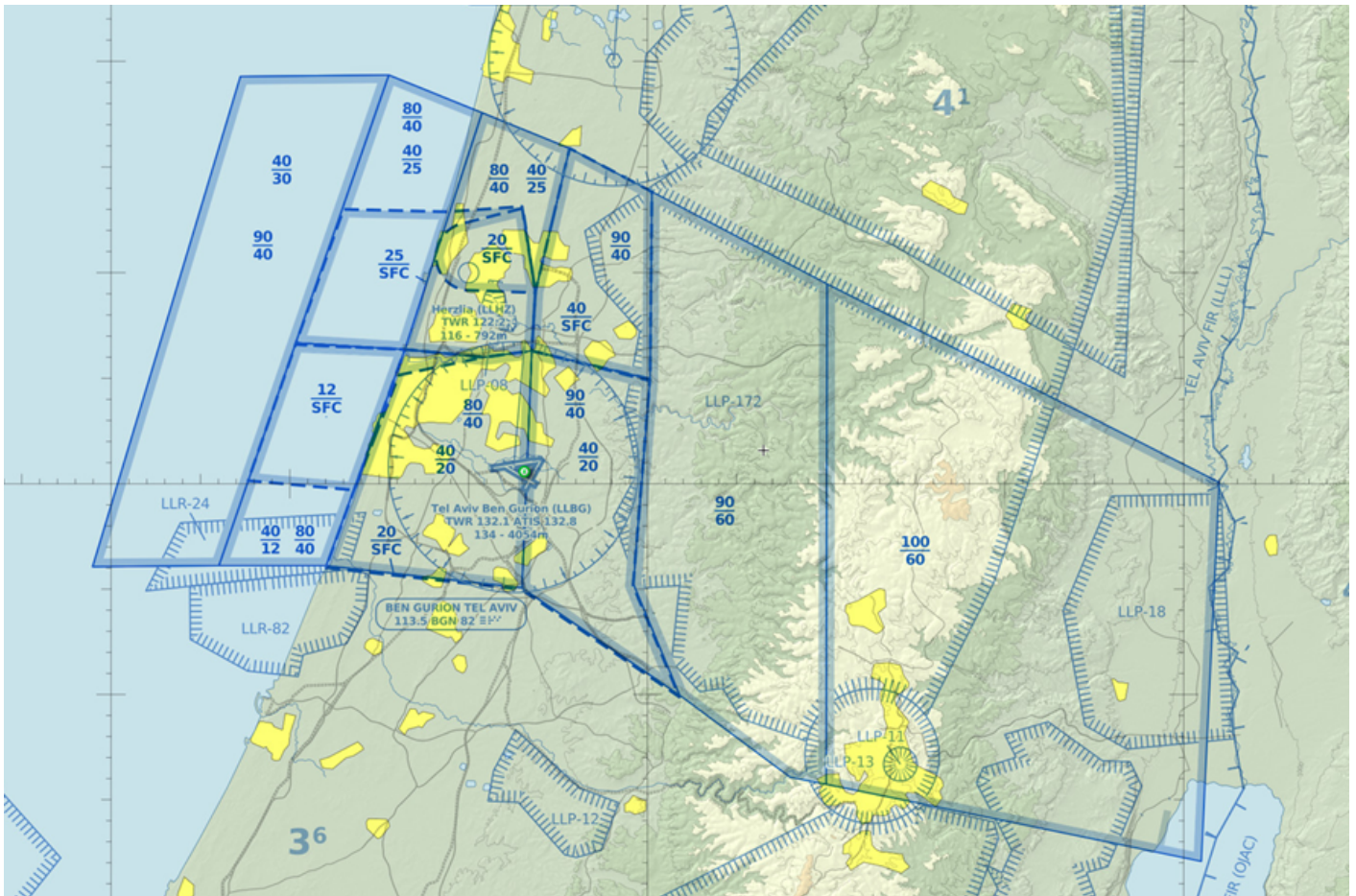
A or D - Departure or arrival

T - TMA Controller

1.1.1 Area of Responsibility

The primary area of responsibility for Ben Gurion Approach is the Ben Gurion Terminal Movement Area (TMA). The TMA is defined as a Terminal Control Area centered around the aerodrome, utilised by the approach controller to safely sequence and manoeuvre arriving, departing, and transiting aircraft.

- **Vertical Limits:** The TMA extends from the specified lower limits up to a maximum altitude of 10,000 feet AMSL at its peak.
- **Airspace Boundaries:** The TMA altitudes are strictly defined to separate different airspace jurisdictions. Below the TMA, the airspace accommodates local aerodromes and CVFR routes. Above the TMA lies the airspace of Tel Aviv Control (LLLL_CTR) and military (IAF) sectors. Controllers must exercise caution to ensure aircraft do not exceed the vertical limits of the TMA.
- **Top-Down Responsibilities:**
 - **Tel Aviv traingle Airspace:** When Tel Aviv Control (LLLL_CTR) is offline, Ben Gurion Approach assumes responsibility for the Tel Aviv maritime airspace, strictly limited to traffic departing from or arriving at Ben Gurion
 - **Herzliya (LLHZ):** When Herzliya Tower or Pluto Control are offline, Ben Gurion Approach assumes top-down control over Herzliya aerodrome.



1.2 Function

BGN radar position provides services as specified in Israel AIP part "א", sections 1, 7, 5, 2, 3, for both IFR and CVFR traffic within controlled airspace.

1.2.1 Responsibility of Approach controllers (D/A APP)

1.2.1.1 D APP

- Receiving departing aircraft from Aerodrome Control (ADC) and controlling them until transfer of control to the appropriate radar/en-route sector.
- Provided Runway 21 is not in use, receiving arriving traffic from the radar sector and managing the sequence and radar vectoring to the active approach.
- Coordinating with ADC regarding the required Minimum Arrival Interval (MAI) and Minimum

1.2.1.2 A APP

- Providing radar vectors or managing the sequence for ILS, Visual, or RNP approaches for Runway 21.
- Coordinating with ADC regarding the required separation between aircraft on Runway 21.

1.2.2 Responsibility of TMA controllers (T APP)

- Sequencing, separating, and managing the TMA airspace for crossing or departing traffic.
- Managing Herzliya aerodrome (LLHZ) and all low-level traffic.
- Sequencing and separating traffic arriving from the east into the main arrival sequence.

1.3 BGN RADAR Bandbox/Splitting Procedures

1.3.1 Opening Order

D-APP may be staffed at all times

A-APP may be staffed only when RWY21 is in use for arrival and while there is no single RWY ops active

T-APP may be staffed after A-APP\D-APP split, or after the opening of D-APP, when RWY21 is not in use.

1.3.2 Procedure for Bandboxing/Splitting D APP and A APP

Chapter 2: Radar Directors – General Operational Procedures:

Chapter 3: Inbound Procedures:

Chapter 4: Procedures for Intermediate and Final Approach:

Chapter 5: Outbound Procedures:

Chapter 6: Holding & Emergencies:

VATIL JorvACC LOA

VATIL irtual Is The New Reality

Letter of Agreement (LOA)

Between: Amman ACC (JOVACC / OJAC) And: Tel Aviv ACC (VATIL / LLLL)

Updated: As of 14 May 2026.

Effective Date: 15 May 2026

JOVACC VATSIM Jordan

Source: AIP ISRAEL (ENR 1.5, ENR 2.1) and applicable Jordan AIP/SUP (Rev 2509/Sep 2025) material as current.

1. General

1.1 Purpose

Defines ATS coordination between Amman ACC and Tel Aviv ACC for IFR/VFR traffic crossing the common FIR boundary.

1.2 Applicability

Applies to all aircraft crossing between the Amman FIR and Tel Aviv FIR when both ATS units are operational.

Operational status (navaids outages, weather, FPL issues, restrictions) that affects ATS provision shall be coordinated immediately.

2. FIR Areas & ATS Airspace

2.1 FIR Boundaries

Tel Aviv FIR

Lateral + vertical limits are as defined in ISRAEL AIP ENR 2.1:

Full FIR from UNL to GND

- Airspace classifications: A, C, D as published.

Amman FIR

As published in JORDAN AIP (ENR sections).

2.2 Mandatory Reporting/Entry Points

Flights entering Tel Aviv FIR from Amman FIR shall use published entry reporting points:

- RALNA or OSAMA waypoints for Tel Aviv Inbounds.
- MUVIN or TALMI waypoints for Tel Aviv overflights departing from the Amman FIR.

Flights entering Amman FIR from Tel Aviv FIR shall use published entry reporting points:

- SALAM or RALNA waypoints for Amman Inbounds.
- OSAMA SALAM RALNA and or MUVIN/TALMI waypoints for Amman overflights departing from the Tel Aviv FIR.

Note: Entry via other points is prohibited unless explicitly cleared by ATC.

3. Standing agreements

3.1 Tel Aviv ACC -- Amman ACC

- ➤ All traffic shall hold cleared altitude 5NM Prior to transfer [unless said otherwise]
- ➤ All traffic shall be separated with lateral separation of 10NM at least unless maintain vertical separation.

- ➤ When transfer of control is performed the traffic shall be with 45 deg of clear area until entering receiving units' airspace.

3.1.1 Tel Aviv ACC to Amman ACC

Inbound	Altitude	Condition
SALAM (enroute)	FL360 or above	
SALAM (enroute)	28,000ft ALT holding	
OJAI	15,000-11,000	➤ Depends on traffic at LLLL airspace ➤ Until SALAM the traffic shall maintain LLBG-QNH

3.1.2 Amman ACC to Tel Aviv ACC

Inbound	Altitude Condition
MOUAB	FL350 or above
Departing TRFC	12,000ft at MOUAB Cleared 14,000 Higher levels maybe coordinated especially when 08's OJAI ops or 06 OJAM ops in use. Maximum allowable is per ATC (usually FL280)

3.2 Ben Gurion -- Amman ACC

- ➤ All traffic shall hold cleared altitude 5NM Prior to transfer [unless said otherwise]
- ➤ All traffic shall be separated with lateral separation of 10NM at least unless maintain vertical separation.
- ➤ When transfer of control is performed the traffic shall be with 45 deg of clear area until entering receiving units' airspace.

3.2.1 Ben Gurion to Amman ACC

Inbound	Altitude	Condition
OJAI/OJAM	11,000ft at SALAM and 9,000ft at RALNA	The inbound traffic shall descend on LLBG QNH until LLLL FIR boundary. Handoff to OJAI should be within 5nm of SALAM and no later.

Inbound	Altitude	Condition
Overflies of Amman TMA	Maximum 9000ft at SALAM	Enter SALAM at 9000ft and no higher unless coordinated. Higher Altitude is subject to Amman ACC approval

3.2.2 Amman ACC to Ben Gurion

Inbound	Altitude	Condition
LLBG	10,000ft/8,000ft at OSAMA	The inbound traffic shall descend on Amman/OJAC QNH

4. Coordination and Procedures with Adjacent Units

4.1 Ben Gurion - Amman ACC

- ➤ If traffic is unable to hold cleared altitude 5NM before transfer of control the adjacent unit shall be updated
- ➤ Inbound to LLBG: OSAMA at 6000ft shall be coordinated as soon as possible (at least 5 min prior to the position)

4.2 Tel Aviv - Amman ACC

- ➤ If traffic is unable to hold cleared altitude 5NM before transfer of control the adjacent unit shall be updated
- ➤ Inbound to Amman ACC (Enroute): Any traffic crossing below FL350 shall be coordinated
- ➤ Inbound to Tel Aviv ACC (Enroute): Any traffic crossing below FL360 shall be coordinated [Except for FL280]
FL280 may be closed due to MIL corridor, in this case Tel Aviv ACC will update Amman ACC with 10 min prior for closure. In that situation the block altitude of FL280 need to be coordinated.

5. Frequencies

Tel Aviv ACC:

Identification	FREQ	Transfer\Reason
LLLL_CTR (Bandbox)	121.400	
LLLL_D_CTR	122.950	Departing traffic from OJAI
LLLL_A_CTR	121.400	Inbound traffic to OJAI
LLLL E CTR	132.025	Enroute traffic
LLBG_D_APP (Bandbox)	120.500	Arriving to LLBG\LLHA\Low altitude enroute flights
LLBG_A_APP	131.100	Shall be coordinated in start of shift, acting as LLBG_APP
LLBG_T_APP	119.500	

Amman ACC:

Identification	FREQ	Transfer\Reason
AMM APP	128.900	All inbounds to Amman TMA including OJAI and OJAM Departures from Tel Aviv towards the east
OJAC_CTR	128.500	When AMM APP is offline, OJAC will assume its responsibilities, therefore traffic will be handed off to OJAC in case of AMM APP being offline All other overflying traffic with not a destination set as OJAI/OJAM shall be transferred to Amman Control given their altitude/FL is below FL250.

6. Airspace & Altimetry Considerations

- RVSM: Applicable within Tel Aviv FIR between FL290 and FL410 per ICAO EUR procedures.

- Flight levels and altitude blocks: Follow published AIP route altitude restrictions and chilling levels for each airway/point as amended.

7. Validity & Amendments

- This LOA reflects the most recent AIP information available (as of 14 May 2026). It supersedes earlier local agreements and NOTAM-derived procedures, but must be verified operationally with AIP and NOTAM.

Signed:

Dalon

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Nadeem Zabaneh ACCJO4ATC Director

Jordan VACC - VATSIM Network

14-May-2026

Yuval Gazit-VATIL3-ATC Director

VATIL - VATSIM Network

14-May-2026

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