
ROVACC/BGVACC Documentation

Release latest

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Welcome to docs.rovacc.ro, the home for ATC training resources in VATSIM Bulgaria and Rmania.

This site aims to give you training resources on all of the ATC ratings provided on

We aren't done yet! Please feel free to add more info using Github!

CHAPTER 1

1.1: VATSIM Basics

Here one will find links to websites that are useful to pilots and controllers within the Sofia FIR:

VATSIM

ROVACC

ROVACC Slack

ROVACC Slack registration

VATEUD

1.2: Training Management

We do things differently when it comes to training. We've split the country into 3 main sets of airports:

2.1 LBWR Division

- LBBG Burgas airport (training field)
- LBWN Varna airport

2.2 LBSF Division

- LBSF Sofia airport (training field)
- LBPD Plovdiv airport
- LBGO Gorna airport

2.3 LBSR Division

This training division is for members with S3s wishing to control a center position.

2.4 How do we run this?

2.5 Local members

We really do care. Members with OBS or S1 ratings will do their training at a LBWR airport (currently LBBG). Once they have been termed as competent for other positions they will be moved to the LBSF division; and able to control

LBSF_TWR. When they move onto approach training they will once again move back to LBWR for approach (again LBBG_APP); when an S3 is awarded they can transfer back to LBSF to control LBSF_APP. Finally, when moving to C1 training the student will be transferred to the LBSR division for CTR mentoring.

2.5.1 What about visiting?

We didn't forget you. At present, visiting controllers are allowed to control any LBWR or LBSR position (but not LBSF) which they are validated for. A visitor must have a minimum S2 with 30 hours of this rating, and control a minimum of 5 hours per month.

2.1: Airspace introduction

3.1 Airspace at a glance:

The Sofia FIR (LBSR) contains mostly class G (below FL90 outside CTR/TMAs) and class C (above FL90 outside TMAs). There are 3 major airports, along with a number of other smaller fields:

ICAO	Airport Name	CTR	TMA	Elevation
LBSF	Sofia Int'l	Sofia	Sofia	1742ft
LBWN	Varna Int'l	Varna	Varna	230ft
LBBG	Burgas Int'l	Burgas	Burgas	135ft
LBGO	Gorna	Gorna	N/A	283ft
LBPD	Plodiv	Plodiv	N/A	597ft

2.3: Radio frequencies

4.1 Introduction

4.2 Internal ACC

ES Callsign	RT callsign	Sector	Frequency	Order	Squark range
LBSR_CTR	Sofia Radar	Main	131.220	2	4701-4777
LBSR_V_CTR	Sofia Radar	Varna sector	134.700	1	4701-4777
Further sector splits can be found in the charts, but are not generally used on VATSIM					

4.3 Internal Airport

4.3.1 LBSF

ES Callsign	RT callsign	Sector	Frequency	Order	Squark range
LBSF_APP	Sofia Approach	Sofia TMA	123.700	1	4701-4777
LBSF_F_APP	Sofia Approach	Sofia TMA	129.900	2	5501-5577
LBSF_TWR	Sofia Tower	RWY	118.100	1	4701-4777
LBSF_G_TWR*	Sofia Tower	RWY	120.200	2	4701-4777
*During periods of high traffic the secondary tower will be replaced by a ground controller, as follows:					
LBSF_GND	Sofia Ground	GND	120.200	1	4701-4777

4.3.2 LBWN

ES Callsign	RT callsign	Sector	Frequency	Order	Squark range
LBWN_APP	Varna Approach	Varna TMA	124.600	1	4701-4777
LBWN_F_APP	Varna Approach	Varna TMA	130.450	2	5501-5577
LBWN_TWR	Varna Tower	RWY	119.500	1	4701-4777
LBWN_G_TWR*	Varna Tower	RWY	118.900	2	4701-4777
*During periods of high traffic the secondary tower will be replaced by a ground controller, as follows:					
LBWN_GND	Varna Ground	GND	118.900	1	4701-4777

4.3.3 LBBG

ES Callsign	RT callsign	Sector	Frequency	Order	Squark range
LBBG_APP	Burgas Approach	Burgas TMA	125.100	1	4701-4777
LBBG_F_APP	Burgas Approach	Burgas TMA	119.650	2	4701-4777
LBBG_TWR	Burgas Tower	RWY	118.000	1	4701-4777
LBBG_G_TWR*	Burgas Tower	RWY	120.000	2	4701-4777
*During periods of high traffic the secondary tower will be replaced by a ground controller, as follows:					
LBBG_GND	Burgas Ground	GND	120.000	1	4701-4777

4.4 ATIS

ES Callsign	RT callsign	Frequency
LBSF_ATIS	Sofia ATIS	124.050
LBWN_ATIS	Varna ATIS	126.875
LBBG_ATIS	Burgas ATIS	126.975
LBGO_ATIS	Gorna ATIS	127.125

5.1 The basics

Runways	04	22
Runway heading	040	220
Length	3200M/10500ft	
ILSAPP	No	CAT1
VORAPP	Yes	Yes
RNAVAPP	Yes	Yes
Prefered config	DEP	ARR
Deicing	Stand 26	Stand 26

5.2 Deicing procedures

Before taxi, and when the temperature is above M10 but below 3 and dewpoint is below 2, the apron controller will ask all aircraft whether they require Deicing to occur. Should this be needed, the controller will taxi the aircraft to hold short of stand 26. This is at the discretion of the captain of the aircraft.

5.3 Low Visibility Procedures (LVP)

LVP is in force when RVR is equal or below 400m, but not less than 150m.

For departure operations:

Rwy 04 shall be used for take-off in LVP.

Rwy 22 may be used if wind requires.

Pilots shall be informed when LVP are in force by ATIS or Burgas TWR. Take-off in low visibility conditions is only permitted from twy A for rwy 04 and twy H for rwy 22.

In low visibility conditions taxiing permission is granted when the previous acft has reported airborne or engine shutdown

LBGO - Gorna Oryahovitsa Airport

6.1 The basics

Runways	09	27
Runway heading	094	274
Length	2447M/8028ft	
ILSAPP	No	No
VORAPP	yes	Yes
RNAVAPP	Yes	Yes
NDBAPP	Yes	Yes
Prefered config	ARR	DEP
Deicing	On stand	

6.2 Deicing procedures

Deicing occurs on stand

6.3 Departure procedures

Maximum climb gradient is in force on all departure routes to 12000ft QNH.

6.4 Procedural approach

Gorna tower provides procedural approach services to aircraft within the Gorna CTR. No radar is available within this area.

6.5 ATIS

Gorna ATIS is available only when LBGO_TWR is online

6.6 Parking positions

Due to the small apron size, during periods of high traffic this may become full. As a result, the two options available are to hold aircraft overhead the Gorna VOR or park aircraft to the south of the runway on the grass. This is at the discretion of the situation coordinator and tower.

7.1 The basics

Runways	12	30
Runway heading	124	304
Length	2500M/8202ft	
ILSAPP	N/A	CAT1
VORAPP	Yes	Yes
NDBAPP	Yes	Yes
Prefered config	DEP	ARR
Deicing	On stand	

7.2 Deicing procedures

Before taxi, and when the temperature is above M10 but below 3 and dewpoint is below 2, the apron controller will ask all aircraft whether they require Deicing to occur. Should this be needed, the controller will taxi the aircraft to hold short of the deicing area on the south entry. The aircraft is then cleared for deicing, and should taxi to the north exit upon completion of the deicing. this is at the discretion of the captain of the aircraft.

7.3 Night procedures

For noise abatement reasons, from 200-0400 Landing on runway 12 is forbidden as well as takeoff from 30. Use of reverse thrust is also restricted.

7.4 Departure procedures

Aircraft with a MTOW of 5.7t or greater shall commence takeoff run as far southeast as possible. Minimum climb gradient is in force on all departure routes.

7.5 Procedural approach

Plovdiv tower provides procedural approach services to aircraft within the Plovdiv CTR. No radar is available within this area.

7.6 ATIS

Plovdiv does not have an ATIS

8.1 The basics

Runways	09	27
Runway heading	091	271
Length	3600M/11811ft	
ILSAPP	CAT1	CAT3
VORAPP	yes	Yes
NDBAPP	No	no
Prefered config	DEP	ARR
Deicing	West deicing	East deicing

8.2 Low Visibility Procedures (LVP)

During periods of low visibility (below 1000m RVR horizontal or 400ft broken vertically) LVP procedures will be in force, and stated in both controller information and ATIS. As Sofia has Ground movement radar (GMR) aircraft will be required to display mode C transponders from startup/pushback (whichever earlier) to shutdown. Taxiway C should not be used, and intersection departures are unavailable. Aircraft should be instructed to “Report fully vacated”. It is highly recommended that RWY 27 is used for departures and arrivals due to the CAT3 ILS available

In reality, aircraft without mode C capable transponders, or those reloading around the airfield are required to operate using follow-me.

8.3 Deicing procedures

Before taxi, and when the temperature is above M10 but below 3 and dewpoint is below 2, the apron controller will ask all aircraft whether they require Deicing to occur. Should this be needed, the controller will taxi the aircraft to

hold short of the deicing area on the south entry. The aircraft is then cleared for deicing, and should taxi to the north exit upon completion of the deicing. this is at the discretion of the captain of the aircraft.

8.4 Taxiway restrictions

Taxiways N and H west of A are closed, and only accessible for long-term parking. Taxiway C is available to aircraft up to B757/A321, due width restrictions near the buisness apron. Taxiway D is only available to LIGHT aircraft, and Taxiway S is available to Medium aircraft under tow, and light aircraft under own power.

8.5 Specialist parking

Buisness jets generally park on stands 12-16. Stands 18, 19 and 16 are available for aircraft destined for Lufthansa Teknik hangars. GA traffic generally parks on either GANE(35-38) or GANW (currently closed, between B and R)

8.6 Terminal allocations

Airline	Terminal	Special
Aegean Airlines	2	
Aeroflot	2	
Air France	2	
Air Serbia	2	
Alitalia	2	Flights currently suspended
ALK Airlines	1	
Arkia	2	
Austrian Airlines	2	
BH Air	1	
British Airways	2	
Bulgaria Air	2	
Dniproavia	1	
easyJet	1	
El Al	2	
Enter Air	2	
flydubai	2	
Israir Airlines	2	
Jet2.com	1	Seasonal flights to Manchester only
Jet2.com	2	All other flights
LOT Polish Airlines	2	
Lufthansa	2	
Lufthansa Regional	2	
Mistral Air	1	
Qatar Airways	2	
Ryanair	2	
Small Planet Airlines	2	
Swiss International Air Lines	2	
TAROM	2	
Thomas Cook Airlines	2	

Continued on next page

Table 1 – continued from previous page

Thomson Airways	2	
Transavia	2	
Turkish Airlines	2	
Wizz Air	1	
Wizz Air	2	Flights to Varna only

LBWN - Varna Airport

9.1 The basics

Runways	09	27
Runway heading	093	273
Length	3600M/11811ft	
ILSAPP	CAT1	No
VORAPP	yes	Yes
RNAVAPP	Yes	Yes
Prefered config	ARR	DEP
Deicing	On stand	

9.2 RNAV-1 Approaches

Most aircraft flying to Varna should be able to accept the P-RNAV-1 approaches, SIDs and STARs. Therefore, these should be used in preference to conventional procedures. Should an aircraft not be able to accept a RNAV procedure, one should revert to using either a Omnidirectional departure (see below) or conventional procedure.

9.3 Omnidirectional departures

09: climb track 108 to 4000ft

27: Climb straight to 2000ft, then track 258 to 4000ft

Both: MNM climb gradient 5% to 4000ft.

9.4 Deicing

Available on stand

10.1 The basics

Runways	09	27
Runway heading	91	271
Length	6562ft/2000m	6562ft/2000m
ILSAPP	NO	CAT2
VORAPP	YES	YES
NDBAPP	NO	NO
Prefered config	DEP	ARR
Deicing		

LRTR - Timișoara Traian Vuia International

11.1 The basics

Runways	11	29
Runway heading	106	286
Length	11483ft/3500m	11483ft/3500m
ILSAPP	CAT3	CAT3
VORAPP	NO	NO
NDBAPP	YES	YES
Prefered config	based on wind	
Deicing		

LRCK - Constanța Mihail Kogălniceanu International

12.1 The basics

Runways	18	36
Runway heading	180	0
Length	11483ft/3500m	11483ft/3500m
ILSAPP	NO	CAT1
VORAPP	YES	YES
NDBAPP	NO	NO
Prefered config	DEP	ARR
Deicing		

13.1 The basics

Runways	16	34
Runway heading	162	342
Length	6562ft/2000m	6562ft/2000m
ILSAPP	NO	CAT1
VORAPP	NO	YES
NDBAPP	NO	NO
Prefered config	DEP	ARR
Deicing		

LRBS - Băneasa Aurel Vlaicu International

14.1 The basics

Runways	07	25
Runway heading	69	249
Length	10171ft/3100m	10171ft/3100m
ILSAPP	CAT2	CAT2
VORAPP	NO	NO
NDBAPP	YES	YES
Prefered config	based on LROP configuration	
Deicing		

LROP - Otopeni Henri Coandă International Airport

15.1 The basics

Runways	08L	08R	26L	26R
Runway heading	79	79	259	259
Length	11483ft/3500m			
ILSAPP	CAT3	CAT3	CAT1	CAT1
VORAPP				
NDBAPP	YES	YES	YES	YES
Prefered config	based on wind and RVR			
Deicing	on stand / taxiway			

15.2 Stand assignments

Most passenger airlines park on apron 1. Low cost airlines, such as Wizz Air and Ryanair often park on stands 116-121. TAROM and others turboprops also often park on stands 122, 118 and 116. Mainline carriers park on stands adjoining the terminal (101-106, 108 & 110-115).

Stands 107 and 109 are suitable for aircraft up to B772. The remainder of the terminal stands (and 119) are suitable up to A321. Stands 116-118 and 120-121 are suitable up to A320/B738. Stand 122 is suitable up to B733.

Apron 2 is mostly used for cargo airlines and main apron overflow. Stands 206-223 are suitable for aircraft up to B757/A321, stands 201-205 are suitable up to B767/A310. Finally, stands 202A-205A are suitable for up to B773, with stand 201A up to B744

LRCL - Cluj Avram Iancu International

16.1 The basics

Runways	07	25
Runway heading	67	247
Length	6693ft/2040m	6693ft/2040m
ILSAPP	NO	CAT2
VORAPP	YES	NO
NDBAPP	NO	NO
Prefered config	DEP	ARR
Deicing		

17.1 The basics

Runways	09	27
Runway heading	86	266
Length	8629ft/2630m	8629ft/2630m
ILSAPP	NO	CAT1
VORAPP	NO	NO
NDBAPP	YES	NO
Prefered config	ARR	DEP
Deicing		

LRTM - Târgu Mureş International

18.1 The basics

Runways	07	25
Runway heading	69	249
Length	6562ft/2000m	6562ft/2000m
ILSAPP	CAT2	NO
VORAPP	NO	NO
NDBAPP	YES	YES
Prefered config	ARR	DEP
Deicing		

LRBC - George Enescu Bacău International

19.1 The basics

Runways	16	34
Runway heading	160	340
Length	8202ft/2500m	8202ft/2500m
ILSAPP	NO	CAT1
VORAPP	NO	NO
NDBAPP	YES	YES
Prefered config	DEP	ARR
Deicing		

LRCV - Craiova International

20.1 The basics

Runways	09	27
Runway heading	85	265
Length	8202ft/2500m	8202ft/2500m
ILSAPP	NO	CAT2
VORAPP	YES	YES
NDBAPP	NO	NO
Prefered config	DEP	ARR
Deicing		

21.1 The basics

Runways	14	32
Runway heading	144	324
Length	7874ft/2400m	7874ft/2400m
ILSAPP	CAT2	NO
VORAPP	NO	NO
NDBAPP	YES	YES
Prefered config	ARR	DEP
Deicing		

22.1 The basics

Runways	01	19
Runway heading	7	187
Length	6890ft/2100m	6890ft/2100m
ILSAPP	NO	CAT1
VORAPP	NO	NO
NDBAPP	NO	YES
Prefered config	DEP	ARR
Deicing		

23.1 The basics

Runways	01	19
Runway heading	13	193
Length	8202ft/2500m	8202ft/2500m
ILSAPP	NO	CAT2
VORAPP	YES	YES
NDBAPP	NO	NO
Prefered config		
Deicing		

24.1 The basics

Runways	09	27
Runway heading	95	274
Length	7054ft/2150m	7054ft/2150m
ILSAPP	CAT2	NO
VORAPP	NO	NO
NDBAPP	YES	YES
Prefered config	ARR	DEP
Deicing		

25.1 The basics

Runways	12	30
Runway heading	119	299
Length	2297ft/700m	2297ft/700m
ILSAPP	NO	NO
VORAPP	NO	NO
NDBAPP	NO	NO
Prefered config		
Deicing		

26.1 The basics

Runways	05	23
Runway heading	48	228
Length	1969ft/600m	1969ft/600m
ILSAPP	NO	NO
VORAPP	NO	NO
NDBAPP	NO	NO
Prefered config		
Deicing		

LRPW - Gheorghe Valentin Bibescu - Ploiești Airport

27.1 The basics

Runways	08	09	26	27
Runway heading	76	88	256	268
Length	2461ft/750m	2592ft/790m	2461ft/750m	2592ft/790m
ILSAPP	NO	NO	NO	NO
VORAPP	NO	NO	NO	NO
NDBAPP	NO	NO	NO	NO
Prefered config				
Deicing				

28.1 The basics

Runways	12	30
Runway heading	116	296
Length	1969ft/600m	1969ft/600m
ILSAPP	NO	NO
VORAPP	NO	NO
NDBAPP	NO	NO
Prefered config		
Deicing		

CHAPTER 29

LRTZ - Tuzla

29.1 The basics

Runways	04	16	22	34
Runway heading	38	161	218	341
Length	3117ft/950m	1247ft/380m	3117ft/950m	1247ft/380m
ILSAPP	NO	NO	NO	NO
VORAPP	NO	NO	NO	NO
NDBAPP	NO	NO	NO	NO
Prefered config				
Deicing				