

Letter of Agreement

between ATCC Ljubljana and ACC
Wien

July 2023 / Revision 1.0

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Table of revisions

Revision number	Date	Notes	Changed by
1.0	30. 07. 2023	Original	524419



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LETTER OF AGREEMENT

between

IVAO Slovenia Division

IVAO Austria Division

and

**ATCC LJUBLJANA
(LJLA_CTR) /
APP Maribor (LJMB_APP)**

**ACC WIEN (LOVV_CTR) /
APP Graz (LOWG_APP) /
APP Klagenfurt
(LOWK_APP)**

Effective date: 07 SEP 2023



General

Purpose

The purpose of this Letter of Agreement (LoA) is to define the coordination procedures to be applied between ATCC Ljubljana (LJLA_CTR), ACC Wien (LOVV_CTR), APP Maribor (LJMB_APP), APP Graz (LOWG_APP) and APP Klagenfurt (LOVK_APP) when providing virtual air traffic services (ATS) to General Air Traffic (GAT) and IFR/VFR Operational Air Traffic (OAT) on the IVAO virtual network.

These procedures are supplementary to those specified in real life ICAO regulations, IVAO regulations, Community Regulations, inter-State or inter air traffic service provider's agreements and/or all other National documents.

Operational Status

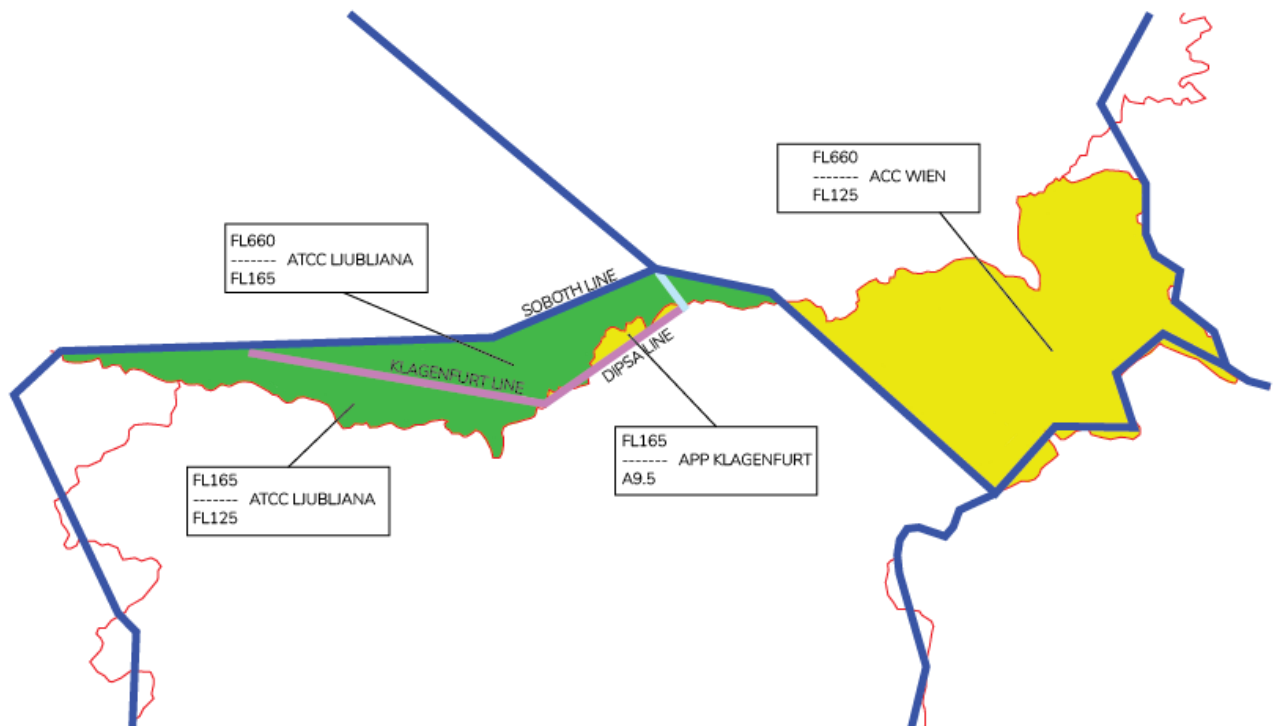
The parties shall keep each other advised of any changes in the operational status of their facilities and navigational aids which may affect the procedures specified in this LoA.

LoA document must be reviewed at least annually by all two parties.



Areas of Responsibility, Lines of Responsibility and Delegation of the Responsibility for the Provision of ATS

Area of Responsibility (AoR)



Delegation of the Responsibility for the Provision of ATS

In the interest of a safe and expeditious flow of virtual air traffic, IVOA Slovenia Division and IVOA Austria Division (the parties) have mutually delegated the responsibility for the provision of ATS along the agreed Lines of Responsibility (LoR).

The parties reserve the right to revoke this delegation at any time.



When providing ATS, ACC Ljubljana and ACC Wien / APP Klagenfurt shall observe the airspace classification applicable within the airspace concerned.

ATS delegated Sector MURA to IVAO Austria

In the volume of airspace of FIR Ljubljana situated east of RUSE Line ATS is delegated to ACC Wien. Vertical extent: FL 125 – FL660.

RUSE – Line:

Point	Latitude North	Longitude East
--	N 46 39 03.0000	E015 20 34.0000
R2	N 46 32 08.0000	E015 31 14.0000
R3	N 46 17 11.7400	E015 54 06.7600

ATS Delegated Area DRAU SOUTH to IVAO Slovenia

Volume of airspace of FIR Wien situated South of SOBOTH Line. Vertical extent: FL165 – FL660.

SOBOTH Line:

Point	Latitude North	Longitude East
S1	N 46 34 25.8735	E013 23 48.4333
S2	N 46 34 59.0000	E013 50 00.0000
S3	N 46 35 51.3000	E014 33 44.3500
S4	N 46 43 12.4100	E015 00 33.4500
S5	N 46 40 19.0000	E015 18 36.0000
S6	N 46 39 03.0000	E015 20 34.0000

ATS Delegated Area KLAGENFURT to IVAO Slovenia

Volume of airspace of FIR Wien situated South of KLAGENFURT Line. Vertical extent:

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- o During service hours of LAU Klagenfurt FL125 – FL165
- o Out of service hours of LAU Klagenfurt lower limit of controlled airspace – FL165

KLAGENFURT Line:

Point	Latitude North	Longitude East
C1	N 46 34 25.8735	E013 23 48.4333
C2	N 46 34 59.0000	E013 50 00.0000
C3	N 46 28 28.0029	E014 41 51.5332

ATS Delegated Area DIPSA to IVAO Austria

Volume of airspace of FIR Ljubljana situated Northwest of DIPSA

Line Vertical extent: 9500 FT AMSL – FL165.

DIPSA Line:

Point	Latitude North	Longitude East
C3	N 46 28 28.0029	E014 41 51.5332
C4	N 46 38 43.1537	E015 04 56.5914



Relevant ATS Units

ATC Callsign	IVAO Login	Frequency
Ljubljana Radar	LJLA_CTR	135.280
	LJLA_U_CTR	130.235
	LJLA_M_CTR	119.885
	LJLA_H_CTR	128.880
	LJLA_TT_CTR	121.330
Ljubljana FIC	LJLA_FSS	118.480
Maribor Approach	LJMB_APP	119.205
Wien Radar	LOVV_CTR	134.350
	LOVV_S_CTR	133.800
Wien FIC	LOVV_FSS	124.400
Klagenfurt Approach	LOWK_APP	123.325
Graz Approach	LOWG_APP	119.300
Klagenfurt Tower	LOWK_TWR	118.100
Graz Tower	LOWG_TWR	118.200
Padova Radar	LIPP_NE2_CTR	120.725
Padova Information	LIPP_FSS	124.150

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Flight Level Allocation Scheme

Flight level allocation to be applied according to the tables below:



LoA Ljubljana → Wien

DEST/DEP	From	To / via / ADES	Summer FLAS	Winter FLAS	Conditions
DEP LIPZ, LIPH	ACC Ljubljana	ACC Wien S	Max FL330	N/A	At FL
		ACC Wien W	Max FL320		At FL
DEP LDZD	ACC Ljubljana	ACC Wien W	Max FL340		At FL
		ACC Wien S	Max FL330		
DEP LDPL, LDRI, LDLO	ACC Ljubljana	ACC Wien W	Max FL320		Climbing, LoR FL310 +
		ACC Wien S	Max FL330		
DEP LDZA	ACC Ljubljana	ACC Wien W	Max FL320		Climbing, LoR FL310 +
		ACC Wien S	Max FL280		Climbing, LoR FL170 +
DEP LJL, LCE	ACC Ljubljana	ACC Wien W	Max FL280		Climbing, LoR FL170 +
		ACC Wien S	Max FL270		
DEP LMB	APP Maribor	APP Graz	subject to approval request		ECP with APP Graz
		LOWG	6000 ft AMSL QNH LMB		At altitude
		ACC Wien W	Max FL260		At FL
DEP LIPQ, LIPA	ACC Ljubljana	ACC Wien W	Max FL280		Climbing, LoR FL170 +
		ACC Wien S	Max FL330		Climbing, LoR FL130 +
DEST EDNY, EDJA, LSZR	ACC Ljubljana	ACC Wien W	Max FL360	N/A	At FL
DEP LHBP	ACC Ljubljana	ACC Wien S	Max FL370		At FL
DEST EDDM, EDMx	ACC Ljubljana	ACC Wien W	Max FL340	Max FL360	At FL
DEST LOWI, LOWS	ACC Ljubljana	ACC Wien W	Max FL340		At FL
DEST LZIB, LZPP, LHSM	ACC Ljubljana	ACC Wien	Max FL330		At FL
DEST LOWL	ACC Ljubljana	ACC Wien W	Max FL340		At FL
		ACC Wien S	Max FL310		At FL
DEST LOWW	ACC Ljubljana	ACC Wien	Max FL310		At FL
DEST LOXZ	ACC Ljubljana	ACC Wien	Max FL300		At FL
DEST LOWK	ACC Ljubljana	APP Klagenfurt via COPs east of GIMIX	Max FL120		At FL
		APP Klagenfurt via COPs west of GIMIX (VEKEN, ARNOS)	Max FL150		At FL
DEST LOWG	ACC Ljubljana	APP Graz	9000 ft AMSL QNH LJLJ		Descending, LoR FL120 -



LoA Wien → Ljubljana

DEST/DEP	From	To / via / ADES	Summer FLAS	Winter FLAS	Conditions
DEP EDDF, EDDN, EDDS, EDTY, EDQ*, EDJA, EDNY, LSZH, LSZR, LSZS, LSMD	ACC Wien	ACC Ljubljana	Max FL350	N/A	At FL
DEP EDDM	ACC Wien	ACC Ljubljana	Max FL330	N/A	At FL
DEP LOWS	ACC Wien	ACC Ljubljana	Max FL300	Max FL330	Climbing, LoR FL250 +
DEP LOWI, LOWL	ACC Wien	ACC Ljubljana	Max FL300	Max FL330	At FL
DEP LOXZ	ACC Wien	ACC Ljubljana	Max FL300	N/A	Climbing, LoR FL250 +
DEP LOWW	ACC Wien	ACC Ljubljana	Max FL320	Max FL340	Summer: Climbing, LoR FL250 + Winter: Climbing, LoR FL280 +
DEP LOWK	APP Klagenfurt	ACC Ljubljana	Max FL150		Climbing, LoR FL130 +
DEP LOWG	APP Graz	ACC Ljubljana	Subject to approval request		Climbing, LoR FL160 -
DEST LDZD, LQBK	ACC Wien	ACC Ljubljana	Max FL330	Max FL350	At FL
DEST LDOS, LQxx except LQBK	ACC Wien	ACC Ljubljana	Max FL370	N/A	At FL
DEST LIPZ, LIPH	ACC Wien	ACC Ljubljana	Max FL320		At FL
DEST LDZA	ACC Wien W	ACC Ljubljana	Max FL290		At FL
DEST LDPL	ACC Wien W	ACC Ljubljana	Max FL290		At FL
	ACC Wien S		Max FL280		At FL
DEST LDRI, LDLO	ACC Wien W	ACC Ljubljana	Max FL250		At FL
	ACC Wien S		Max FL260		At FL
DEST LIPQ, LIPA	ACC Wien W	ACC Ljubljana	FL190		Descending, LoR FL240 -
	ACC Wien S		Max FL240		At FL
DEST LJLJ	ACC Wien S	ACC Ljubljana RADLY/VALLU	FL130		Descending, LoR FL200 -
	ACC Wien W	ACC Ljubljana LUMUS/BERTA			
			ACC Ljubljana VEKEN/DEGUM	FL170	
DEST LJCE	ACC Wien S	ACC Ljubljana	FL130		Descending, LoR FL200 -
	ACC Wien W		FL170		Descending, LoR FL240 -



LJMB	APP Graz	APP Maribor	7000 ft AMS QNH LJMB	Descending, LoR FL120 -
	ACC Wien S	ACC Ljubljana	FL170	Descending, LoR FL240 -



Direct Routings

Without individual coordination flights may be cleared to the next published waypoint contained in the filed FPL located outside the transferring sector's area of responsibility, provided that:

- the original accepting sector remains the same
- the buffer of 3NM to the SECSI FRA outer border is observed

Transfer of Control

The transfer of control takes place over the agreed Lines of Responsibility (LoR) unless otherwise coordinated with competent on-duty ATCO. Transfer of communications shall take place not later than transfer of control. Transfer of communication shall normally occur 2 (two) minutes before the ACFT reach agreed LoR.

Traffic shall be transferred from one ACC to another with horizontal distance between the ACFT not less than 10 NM within 5 minutes flying time (maintaining this distance or increasing) after passing the LoR unless vertical separation exists.

When an RVSM approved aircraft is unable to continue to meet the vertical navigation accuracy required to operate within the EUR RVSM airspace, the transferring center shall inform the accepting center of that information through COMM Box communication using the term "C/S - UNABLE RVSM«. Aircraft without RVSM approval shall be transferred below FL285.

For any proposed deviation from the conditions specified for transfer of control the transferring unit shall initiate respective coordination.



If the accepting center cannot accept a flight offered in accordance with the conditions specified above, it shall clearly indicate its inability and specify the conditions under which the flight will be accepted.

VFR Flights

Unless specially authorized by the respective ACC, VFR flights shall not be operated above FL195. Such special approval shall not be granted for en-route VFR flights.

For departure and arrival from/to controlled and uncontrolled airports VFR traffic shall use VFR reporting points prescribed on the charts.

All transferring units shall notify accepting unit about exit/entry point and/or altitude for all VFR flights according to tables below.

Northbound flights

Coordination Point	Accepting Unit
Between VEKEN and ARNOS	Klagenfurt Approach
GIMIX	Klagenfurt Approach
Between NIPEL and DIPSA	Klagenfurt Approach
Between RADLY and NIDLO	Graz Approach

Southbound flights

Coordination Point	Accepting Unit
Between VEKEN and GIMIX	Padova Information
Between GIMIX and DIPSA	Ljubljana Information
RADLY	Ljubljana Information
Between GOLVA and NIDLO	Maribor Approach

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Validity

This Letter of Agreement becomes effective 07. SEPTEMBER2023, and supersedes any previous Letter of Agreement between ATCC Ljubljana and ACC Wien.