

LETTER OF AGREEMENT

between

München ACC

and

Karlsruhe UAC

Branch South

Branch Upper

Effective: November 28, 2024 (AIRAC 2412)

1 General

1.1 Purpose

The purpose of this Letter of Agreement is to define the coordination to be applied between München ACC and Karlsruhe UAC when providing ATS to air traffic on the VATSIM network.

All information and procedures described in this Letter of Agreement shall not be used for real world purposes.

1.2 Operational Status

All operational significant information and procedures contained in this Letter of Agreement shall be distributed to all concerned controllers by appropriate means. This Letter of Agreement itself constitutes public information.

1.3 Validity

This LoA becomes effective November 28, 2024 and supersedes revision 3.0 dated November 30, 2023.

1.4 Revision control

Revision	Date	Author
1.0	06.01.2022	Jannik Vogel
1.1	11.08.2022	Jannik Vogel
2.0	23.03.2023	Jannik Vogel
3.0	30.11.2023	Jannik Vogel, Hannes Altmann, Konstantin Eierhoff
4.0	28.11.2024	Jannik Vogel

2 Areas of Responsibility for the provision of ATS

2.1 Areas of Responsibility

The lateral and vertical limits of the respective areas of responsibility are as follows:

2.1.1 <u>München ACC</u>

München FIR and Rhein UIR as described in AIP Germany.

Vertical limits: GND – FL245 (München FIR)

FL245 – FL315 (Rhein UIR)

2.1.2 Karlsruhe UAC

Rhein UIR as described in AIP Germany.

Vertical limits: FL245 - FL660

2.2 Sectorization

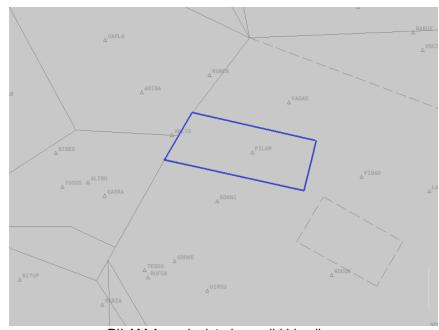
For detailed information about sectorization, see: vats.im/sectors-edmm and vats.im/eduu.

2.3 Delegation of the responsibility for the provision of ATS.

2.3.1 <u>Delegation of ATS from München ACC to Karlsruhe UAC.</u>

Within Rhein UIR the responsibility for the provision of ATS is performed by Karlsruhe UAC within the following area defined as PILAM-Area:

Vertical limits: FL295 - FL315



PILAM Area depicted as solid blue line.

2.3.2 <u>Delegation of ATS from Karlsruhe UAC to München ACC.</u>

Within Rhein UIR the responsibility for the provision of ATS is performed by München ACC within the following area defined as Ansbach (ANS) Area:

Vertical limits: FL245 - FL305



ANS Area depicted as solid blue line.

3 Procedures for Coordination

3.1 Definitions

A release is an authorization for the accepting ATS unit to climb, descend and/or turn (by no more than 45°) a specific aircraft before the transfer of control point. The transferring ATS unit remains responsible for separation within its Area of Responsibility unless otherwise agreed.

Wherever VATSIM callsigns are used to describe the terms of a certain procedure, this procedure is also applicable for all higher stations that take over the responsibilities of said station. E.g., procedures for an APP-stations are also applicable for the respective CTR station fulfilling the duties of said APP station.

The use of VATSIM callsigns in this document includes any variation of said callsign. E.g. any procedure applicable for EDMM_CTR may also be used by EDMM_X_CTR.

3.2 General Conditions

Coordination of flights shall take place via the agreed coordination points (COP).

Coordinated flights shall be handed off via a valid COP. Any deviation shall be coordinated verbally, by text or by Euroscope inter-sector coordination.

Traffic shall be handed off at the levels, defined in the regulations below. If a specified level restriction cannot be met due to a lower RFL, traffic shall be handed off at RFL, if this does not cause a conflict with any other traffic. Otherwise, traffic shall be coordinated.

If a traffic situation is not covered herein or closely matching a covered one, individual coordination between the concerned sectors shall be made.

After Transfer of communications, traffic is NOT released for climb, descent or turns until Transfer of control or otherwise specified in this Letter of Agreement.

↓FLxxx / ↑FLxxx means "descending / climbing to a specified FL", without any further restriction. Any required crossing/specified restriction shall be added separately. At level means that the aircraft shall be in level flight on a published flight level and in accordance with east/ west odd/even policy.

3.3 Flights from Karlsruhe UAC West and Central Sectors to Munich ACC

3.3.1 <u>Arrivals</u>

Destination AD	Route of Flight and ACT COP (bold)	Transferring Sector	Entry Conditions	Accepting Sector	
LOWI, LOWS	T104- DKB	WUR1	At FL310 or below	WLD	
LOWI, LSZS, LSZA, LSZL, LIPB	M738/DCT-BATUB	TGO1	At FL310 or below	FUE	
EDDP, EDAC	T279/T278- TAMEB	FUL1	5NM before TAMEB at FL250	GER	
EDDP	FEDZA -T957	. 02.	FL260	HAL	
EDDP	IBAGA-T435	WUR1	At FL310	BBG	
EDBM	FEDZA-N858	FUL1	At FL250	HAL	
LKKV EDMS	L984- KOMIB	WUR1	At FL250	200	
LKKV, EDMS	L604-GASKA	FUL1	Al FL250	BBG	
EDDM	T107-GESLU	TGO1	Descending FL250, to cross 5NM before GESLU at FL250 (*1)	NDG	
	T104- DKB	WUR1	FL250 at DKB	WLD	

(*1) Note: Released for descent to FL240.

3.3.2 **Departures**

Departure AD	Route of Flight and ACT COP (bold)	Transferring Sector	Entry Conditions	Accepting Sector
EDDF	DINKU-L603	WUR1	Climbing FL290 out of FL230 (*1)	WLD
EDDF, EDFE, ETOU, EDFB	Y161- ELVAG - RIDAR		Climbing FL310 out of FL240	NDG
	FEDZA-N858			HAL
EDDF, EDFE, ETOU, EDFB, EDFZ	FEDZA -Y172	5	FL290 (*1)	
,	TAMEB -T278	FUL1		
EDDF	MAGES-TAMEB DCT NEVKO			GER
ETAR, ETOU	BARSU-Z12-SULUS	WUR1	FL270	222
EDVK	GASKA-GORKO- SULUS	FUL1	FL270	BBG

(*1) Note: Released for climb to FL310.

3.4 Flights from Karlsruhe UAC East Sectors to Munich ACC

3.4.1 <u>Arrivals</u>

Destination AD	Route of Flight and ACT COP (bold)	Transferring Sector	Entry Conditions	Accepting Sector
EPWR	L856/M725/DCT- KOBUS		KOBUS FL320	MEI
EFWK	BEBKU DCT LASIS	SPE1	abeam KOBUS FL320	
EDDO	KOBUS-P31	0, 2,	1/05/10 5/ 000	WIEI
EPPO	KOBUS DCT POZUM		KOBUS FL320	
EDDB, EDAY, EDAZ	RELKO -T728		RELKO FL320	
LDDB, LDAT, LDAZ	T202- GOLAT -T202	SAL1	GOLAT FL320	OED
EDDN, EDQD, EDQM, EDQC, EDQK, EDQT,	TOGRO T202		TOGRO FL320	GER
EDQG, EDQA, ETIC	VEVAS L87 TOGRO		VEVAS FL300	
EDDN, EDQD, EDQM, EDQC, EDQK, EDQT, EDQG, EDQA, ETIC, EDDE	MAG M736 GALMA	HVL1	MAG FL300	HAL
EDDW, EDDV, EDVE, EDBM, ETNW	DCT/M726- LASGA - M726		LASGA FL320	BBG
EDDC, EDAB	Z715/L984-KULOK - Z715	ERL1	10 NM prior KULOK at FL320	HOF
	BAROB-Z35		TONSU FL320	
LKPR, LKKB, LKCS,	TALEG-L620	SPE1	FL320 at boundary	GER MEI
LKVO, LKPD, LKCV,	OSTRA-Z21		SAL/SPE	
LKHK, LKMH	EBASA-M725		EBASA FL320	
	OSKAN-M748		OSKAN FL320	
EDDN, EDDS, EDJA	NOKSI-Z715		20NM before NOKSI FL320	
EDMS, ETHN, ETIN, LKKV	GALMA-M736	SAL1	GALMA FL320	HAL
LKPM EDQD, EDQM, EDQC, EDQK, EDQT, EDQG,	BEBKU-Z36	SPE1	BEBKU FL320	MEI
EDQA, ETIC, ETIN, ETHN, LKKV, LKCS	KOBUS-P31		KOBUS FL320	
ELLX	MAG-Z20	HVL1	MAG FL300	
	DCT NIMAB T171	SAL1	NIMAB FL320	
EDDF, ETOU, EDFE,	T178 OSKAT T178	SALI	OSKAT FL320	HAL
EDFZ, EDFQ	TOPDI DCT NIMAB T171	HVL1	TOPDI FL300	
	DIDGI DCT NIMAB T171		DIDGI FL300	

Destination AD	Route of Flight and ACT COP (bold)	Transferring Sector	Entry Conditions	Accepting Sector
EDDF, ETOU, EDFE, EDFZ, EDFQ	SULED DCT ROBEL		abeam NAMUB FL320	
ETSI, ETSN	SULED-T202		SULED FL320	
ETSI, ETSIN	RELKO-M736	SAL1	RELKO FL320	GER
EDDR, EDDS, EDFM, EDFV, EDJA, EDRY, EDRZ, EDTL, EDTY, EDSB, EDTM, ETAR	SULED DCT BAMKI	O/ NE I	SULED FL320	
EDDM, EDMA, EDMO	SODRO-T703		15NM before SODRO FL320	
	NURGO-T170		NURGO FL320	ПОЕ
EDDF	SODRO DCT SULUS	ERL1	SODRO FL320	HOF
EDDF, ETAR	UNAVI-Z93		UNAVI FL320	

3.4.2 <u>Departures</u>

Not applicable.

3.5 Flights from Karlsruhe UAC South Sectors to Munich ACC

3.5.1 <u>Arrivals</u>

Destination AD	Route of Flight and ACT COP (bold)	Transferring Sector	Entry Conditions	Accepting Sector
LIMC, LIML, LIME	M738 MADEB		MADEB at FL320	ZUG
LIPZ, LIPH, LIPX, LIPO, LIPA	DCT BERAS M736	ALP1	BERAS at FL320	
LSZS, LSZA, LIPB	M736 TULSI	CHI1	MANAL / abeam MANAL at FL320	TEG
LIPZ, LIPH, LIPX, LIPO, LIPA	M738/N871 MADEB		MADEB at FL320	ZUG
LFST, LSZB	KPT L856 RAVED		KPT at FL320	
LFST, LFGA, LFSB, LFJL	KPT L608 TEDGO		30NM prior KUNOD at FL320	FUE
LSZH	P66 KPT	ALP1	20NM prior KPT at FL320	
EDDS	P66/L12 MOGTI P66		10NM prior MOTGI at FL320	ZUG
EDSB, LSZS, EDFM, ETAR, EDTD, EDTL, EDRY	P66/L856 KPT RAVED		15NM prior KPT at FL320	FUE
EDSB, EDDR, EDRY, EDRZ, EDFM, ETAD, ETAR	L173 MAH L173 RIDAR	ISA1	OTT at FL320	NDG
EDDF	Q163 NIKWU Q163	ALP1	NIKWU at FL320	FUE
EDDF	ERKIR UQ863 GESUC	ISA1	GESUC at FL320	NDG
EDSB, EDRY, EDFM	M726 KOGOL	CHI1	KOGOL at FL320	STA
EDDS, EDSB, EDRY, EDTY, EDFM	L608 KPT		30NM prior KPT at FL320	
LFSB, LFGA, LFGB, LFSC, LFSM, EDTG, LSGC, LSZ_ (excl. LSZH), LSM_ (excl. LSMD)	P66/L608/L856 KPT	ALP1	KPT at FL320	FUE
LSZH, LSMD	L856/L608 KPT		30NM prior KPT at FL320	
LOWE	L607 MOMUK		15NM prior BEMKI at FL320	ZUG
LOWS	T703 TIVDA	DON1	ARMUT at FL320	RDG
	L603 BESNI	ISA1	BESNI at FL320	NDG
LOWL	DCT TULSI N871	CHI1	TULSI at FL320	TEG
	T703 TIVDA	DON1	ARMUT at FL320	RDG
EDDN, EDDS, EDTY, EDQD, EDQM, EDQC, EDQK, EDQT, EDQG, EDQA	M726 KOGOL	CHI1	NORIN at FL320	STA

Destination AD	Route of Flight and ACT COP (bold)	Transferring Sector	Entry Conditions	Accepting Sector
LOWI	M736 RUDNO	DON1	RUDNO at FL320	RDG
EDDC, EDAB	L132 RUDNO		10NM prior RUDNO at FL320	RDG
INDD INDD INDD	L132 MAMOR	DON1	MAMOR at FL320	
LKPR, LKPD, LKKB, LKCV, LKHK, LKMH, LKVO	N871/Y700 NENUM UZ39		NENUM at FL320	EGG
LKVO	GAMSA DCT STAUB		STAUB at FL320	RDG
LKKV	MAH L132	ISA1	MAH at FL320	NDG
ETAR, EDGS, EDRK	M726 MAH	10/(1	WAIT ALT LOZO	NDG
EDDF	M726 ERNAS / T161 GOLMO T161		GOLMO / abeam GOLMO at FL320 (*1)	
EDDF, ETOU, EDFE, EDFZ	M726 ERNAS Y101 TALAL		TALAL at FL320	ALB
EDFZ	AKINI T159 TALAL			
EDDF	Q162 ERMEL	DON1	10NM prior ERMEL at FL320	
EDQG	L610 STAUB		STAUB at FL320	RDG
EDSB, EDDR, EDRZ	L610 UNKUL Z744 PETIX		UPALA at FL320	
EDDP, EDAC, EDDE, EDFQ, EDVK	DCT / M726 UPALA		10NM before UPALA at FL320	ALB
EDFQ, EDGS, EDDE, EDDP, EDVK	L604 RUDNO		RUDNO at FL320	RDG
LKCS	AMDID N871	CHI1	AMDID at FL320	TRU

^(*1) Note: Flights are released for descent and turn within DON sector. If spacing cannot be accomplished by DON, successive arrivals may be revised at FL330.

3.5.2 <u>Departures</u>

Not applicable.

3.6 Flights from München ACC to Karlsruhe UAC West and Central Sectors

3.6.1 <u>Arrivals</u>

Destination AD	Route of Flight and ACT COP (bold)	Transferring Sector	Entry Conditions	Accepting Sector
LFST, LFGA, LFSB, LFJL	KPT-L608 KUNOD L608	FUE	at FL280 or below	TGO1
EDDK, EDLW, EDLA, EDKZ, EDLP, EDLI	L604 GASKA Y102/T852 TESDU		at FL300 or below (1)	
EDDK, EDLW, EDLA, EDKZ, EDLP, EDLI, EDFQ, EDDL	PILAM T843	BBG	at FL300 or below (if RFL < FL315)	FUL1
EDSB, EDDR, EDRZ	PETIX Z744 COSJE	ALB	at FL280 or below	WUR1

⁽¹⁾ Released for descent FL280 when passing Z94.

3.6.2 <u>Departures</u>

Departure AD	Route of Flight and ACT COP (bold)	Transferring Sector	Entry Conditions	Accepting Sector	
EDDP, EDAC	Z94-KOMIB		at FL300		
EDDP, EDAC	Y231- ALAXA Y231		at FL310	WUR1	
EDDE	Z94-KOMIB	220	at FL260	WORT	
EDDE	Y231- ALAXA Y231	BBG	at FL310		
EDDN	L604-GASKA			FL260, GASKA@	FUL1
EDDM	L604-GASKA		at FL300	1021	
EDDM, EDMA, EDMO	Y101-AMOSA- Y101/L610 IBAGA DCT MASEK Y101-INBED DCT REKDI	ALB	climbing FL300, latest IBAGA/REKDI at FL300	WUR1	
EDMS	L610 INBED DCT REKDI	at FL300	at FL300		
EDDM	Z714- PELOG - UM164-UTABA	FUE	at FL260 (1)	TGO1	
LKKV, EDQD, EDQM	L984-SULUS-T852- TESDU L984-SULUS-L604- GASKA	BBG	at FL260 (2)	FUL1	
LKKV, EDQD, EDQIVI	L984-KOMIB				
	Z715-ALAXA/N869 AMOSA	ALB	at FL260 (2)	WUR1	
EDDP	Y225- TAMEB -DCT	GER	2NM before TAMEB @FL260 (2)	FUL1	

⁽¹⁾ FUE may transfer flights at higher FL, whenever possible.

⁽²⁾ Flights may be revised at FL280 / FL300.

3.7 Flights from München ACC to Karlsruhe UAC East Sectors

3.7.1 <u>Arrivals</u>

Not applicable.

3.7.2 **Departures**

Departure AD	Route of Flight and ACT COP (bold)	Transferring Sector	Entry Conditions	Accepting Sector	
EDDE	N858 DIDGI			HVL1	
EDDV, EDDG, EDVE, ETNW	Z94- GALMA - T703/M736/Z21				
EDLP, EDDK, EDDL, EDLW,	BIRKA-Z21 -GALMA - N858/Z21				
EDVK	BIRKA-L602- SUVUT	HAL			
EDDB	Z115/Z117- ORTAG DCT BAMKI	TIAL			
	Z207- SONDU			SAL1	
EDAY, EDAZ	M736- GALMA			OALT	
EDDF, EDFE, EDFZ, ETOU	Y172- SISMI				
EDDB	Z117-MIPSI DCT KEGOS				
EDDF	TAMEB DCT NEVKO DCT LASIS/GOVEN	GER	FL310		
LDDI	TAMEB DCT NEVKO DCT GOLAT DCT EKPEK				
EDDB	M725- KOBUS				
EDDB	Z36-BEBKU	MEI			
EDAC	P31- KOBUS -M725			SPE1	
EPPO	KORUP DCT/P31-KOBUS			SPET	
LITO	L735- LUROS				
EPWR	Z348- IVDUF				
EDDC, EDAB	Z715- UNAVI -Z93/Z715				
LDDO, LDAD	T843- RONTU	HOF			
EDBM	M736- RONIG -M736			ERL1	
LDDIVI	Z94- RATIP -Y231	BBG			
EDDP, EDVK	M736- RONIG -M736/DCT	HOF			
EDDV, EDVE, ETNW	Y800- TADUV -Z21-OSTRA	GER		SAL1	
EDDE	Z21- RISVA				
LDDL	L620- EKPEK	, A		0054	
LKPR, LKKB, LKVO	Y621- GARKI	MEI		SPE1	
LKPD, LKCV, LKHK, LKCS	M725- KOBUS				

Departure AD	Route of Flight and ACT COP (bold)	Transferring Sector	Entry Conditions	Accepting Sector		
LKPR, LKKB, LKVO, LKCV, LKHK, LKPD, LKCS	M748- RENDO	MEI	_	SPE1		
LKPR, LKKB, LKVO, LKCS, EDDC	L602-SODRO	HOF		SAL1		
LKKV	L602-SODRO					
LINIXV	L132- ABKIS -L132	MEI		SPE1		
EDDN, ETIC, EDQD, EDQM, EDQC, EDQK, EDQT,	L132- ABKIS -L132	IVILI		OF L I		
EDQG, EDQA	M726- OKKOC	GER		SAL1		
EDDF, ETOU, EDFE, EDQG,	L984- KULOK					
ETHN, ETAR	Z650- NOGRA	HOF				
EDDS, EDSB, EDTY, EDVK	Z715- KULOK	ПОР		1101		
EDDS, EDSB, EDTT, EDVK	Z650- NOGRA		FL310			
EDDM, EDMO, EDMA,	Y102- ALAXA					
EDMS, ETSI, ETSN	M726- LONLI	BBG				
ED IA	M726- LONLI				ERL1	
EDJA	Z715- ERETO - Z715/Z650					
EDMO	Z109- BAMAS - Z109/L604					
	L984-KULOK-Z715- ERETO					
LKPR, LKKB, LKVO, LKCS	Z93-UNAVI	ПОЕ				
	T843-RONTU	HOF				
EDDF, EDFE, LSZH, EDDS, EDSB, EDTY, EDDM	Z715(L132)- ABKIS - L132	MEI		SPE1		
EDDF, ETOU, EDFM, EDDS, EDSB, EDTY, LSZH	M726- OKKOC	GER		SAL1		
EDDM	Z109- BAMKI					

3.8 Flights from München ACC to Karlsruhe UAC South Sectors

3.8.1 <u>Departures</u>

Departure AD	Route of Flight and ACT COP (bold)	Transferring Sector	Entry Conditions	Accepting Sector
LIDD	M726 KOGOL	STA		CHI1
LIPB	P66 KPT	FUE		AL D4
LOWI	L608 KPT	FUE		ALP1
LOWI	M726 MAH	NDG		ISA1
	L610 MAMOR			
LOWS	L604 RUDNO / NENUM DCT RUDNO	RDG		DON1
	L856 KPT	FUE		ALP1
	L856 KONIN	STA		CHI1
LOWL	L610 MAMOR	RDG		DON1
	L604 RUDNO	KDG		DONT
EDDS, EDTY	Z98 WLD Z98	NDG	FL310	ISA1
EDDF, EDSB, ETAR, EDF*, EDG*, EDDR, EDRZ, EDRY	Z98 -> L605/Y161 REDVO	NDG		ISA1
	L603 BESNI L605			
EDDF	MIQ DCT ALUTU DCT BIBAG (slow climber)	EGG		DON1
ETAR, EDSB, LFST, EDDS	N871 MADEB N871/N606	ZUG		ALP1
217111, 2000, 21 01, 2000	L607 BEMKI	FUE		/\Li
EDDS, EDDN,EDTY,	L173/L603 ROTAX	TRU		
EDQD, EDQM, EDQC, EDQK, EDQT, EDQG,	M867 TAKEX	TRU		CHI1
EDQA	M736 MANAL	TEG		
EDQD, EDQM, EDQC, EDQK, EDQT, EDQG, EDQA	L604 LALIN	EGG		DON1
EDAC, EDDE	M736 RUDNO	RDG		
LKPR, LKPD, LKKB, LKKV,	P31 BAMTA	EGG		DOM
LKVO	RUDAP DCT MAMOR	RDG		DON1
LFSB, LSZB, LSZC, LSZG, LSZS, LSMA, LSME	N871 MADEB N871/N606	ZUG		ALP1
EDJA, EDNY, LSZR, LSZH	L725 ZUREX	TRU		CHI1
LDJA, EDINT, LOZK, LOZH	N871 ATLOL	TRU		CHH

LSZH	N871 SUGIB	STA		ALP1
	Z2 TUNUM	TEG		

4 Special Procedures

4.1.1 The following tactical directs may be used without prior coordination provided those waypoints are on FPL route and traffic remains clear of adjacent sectors/centers:

Transferring sector (unit)	Waypoint
BBG (EDMM)	HLZ, KUMER, ABGUS, ZUCKA
HAL/GER (EDMM)	HLZ, KUMER, ZUCKA
HOF (EDMM)	VEMUT, OKG, KATCE
MEI (EDMM)	OMELO, MAREM, HDO
SAL (EDUU)	SODRO, LALUK, LASIS
SPE (EDUU)	LALUK, LASIS
FUL (EDUU)	TAMEB

4.2 Enroute Traffic

4.2.1 Traffic between München ACC and Karlsruhe UAC sector TGO along L608 may be cleared from ERKIR/MANAL direct TEDGO.

4.3 Departures

4.3.1 Routing ERMEL – Y101 – INBED

WUR1 accepts these flights climbing max. FL300 to be latest IBAGA/REKDI at level.

Departures EDMM FIR may be cleared direct IBAGA/REKDI by ALB sector.

Departures EDMM FIR are released by ALB sector

- for climb to FL310 and
- for turns passing/reaching FL300 or INBED/abeam INBED whichever is earlier.
- 4.3.2 Departures EDDN and EDDM L604-MASEK are released for climb from BBG.

4.4 Arrivals

- 4.4.1 Arrivals EDDP via FEDZA-T957 are released from FUL.
- 4.4.2 Sector ALP may clear flights direct TIRUL and BERAS.

4.5 Flights on transit

Flights via OTT-L173-EBEDA are released for turn from München ACC to CHI sector after passing OTT/abeam OTT.

Departures LSZH via Z2 XEBIX are accepted

- DCT KOGOL by ALP and CHI sector,
- DCT BIRGI, GEDSO or UMVEG by ALP sector.

Arrivals EDSB, LSZS, EDFM, ETAR, EDTD, EDTL and EDRY via P66 are accepted DCT KPT.

5 Transfer of Control and Transfer of Communication

5.1 Transfer of Control

Transfer of Control shall take place at the AoR boundary, unless otherwise specified in paragraph 3.

If the downstream sector in EuroScope is set to >.break<, the procedure 5.4 is suspended and transfer of communication can only take place after the downstream sector has assumed the flight via the appropriate function of the radar client.

If it becomes necessary to reduce or suspend transfers, a 5 minute prior notification is required.

When transfers are suspended, the hand-off procedure (5.4) is suspended.

5.2 Silent transfer of control

The following values for silent transfer of control apply:

- If succeeding aircraft is not faster: 10 NM
- If succeeding aircraft is faster by 20kts/M0.05 or less: 20 NM
- If succeeding aircraft is faster by 40kts/M0.1 or less: 30 NM

5.3 Conditions for vertical entries

Silent radar transfer of vertical entries shall be carried out according to the conditions listed in Chapter 3.

5.4 Transfer of Communications

Transfer of Communications shall take place no later than Transfer of Control.

5.5 Hand-Off procedure

Unless otherwise agreed between stations online, the following hand-off procedure shall apply:

- The upstream sector sends the aircraft to the frequency of the downstream sector by voice
 or text.
- 2. The upstream sector initiates a transfer via the appropriate function of the radar client.
- 3. Upon initial call the downstream sector assumes the flight via the appropriate function of the radar client.

5.6 SSR Code Assignment

Both ATS units shall transfer flights on verified discrete SSR codes. Any change of SSR code by the accepting ATS unit may only take place after the transfer of control point.