

INTERNATIONAL CIVIL AVIATION ORGANISATION



EUROPEAN AIR NAVIGATION PLAN

Volume II, PART III – CNS

SUPPLEMENT

TABLE AFS-3

ATM GROUND VOICE NETWORK DATABASE (AGVN)

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The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of ICAO concerning the legal status of any country, territory, city or area of its authorities, or concerning the delimitation of its frontiers or boundaries.

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FOR OPERATIONAL PURPOSES

1. GENERAL

1.1 Table AFS-3 is a Supplement to the European Region Air Navigation Plan, Volume II, Part III - CNS (ICAO Doc 7754).

1.2 The Table depicts existing and planned international connectivity in support of ATS direct speech communications.

1.3 The above information is collected in the frame of the EUROCONTROL AGVN database and regularly updated by States.

2. EXPLANATION OF THE TABLE

Column Heading	Explanation
Local ATS Unit	Local ATS Unit Location Indicator (ICAO Doc 7910 refers)
Remote ATS Unit	Remote ATS Unit Location Indicator (ICAO Doc 7910 refers)
Type of Circuit	L – Landline M – Multiplexer N – Network R – Radio S – Satellite
Type of Connection	ATS – QSIG ATS – QSIG E1 LB MCF – R2 VoIP Other (in this case the type shall be described in the remarks field).
No. of Connections	The total number of connections that serve the particular ATS units (main & back up, of the same type).
Status of Implementation	I - Implemented, for circuits that already operate. P - Planned, for circuits that are planned to operate in the near future. If the implementation date is known, shall be indicated in brackets in the Remarks field.
Remarks	Free Text. (e.g. description of a type of connection other than those specified, implementation date of a planned connection, or any other comments that might be useful.

3. ABBREVIATIONS

ATS	Air Traffic Service
AGVN	ATM Ground Voice Network
LB	Local Battery
MFC-R2	Multi Frequency Coding using the R2 signaling system
QSIG	Signaling at the “Q” reference point (also known as private signaling system number 1)
VoIP	Voice over IP



AGVN International Full Connectivity Report

03/12/2025

Austria

Last updated on: 28/08/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LOVV (Vienna ACC-Center)	EDMM (Muenchen ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LOVV (Vienna ACC-Center)	EDUU (Karlsruhe UAC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LOVV (Vienna ACC-Center)	EUCH (EUROCONTROL NM)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	connection to Brussels
LOVV (Vienna ACC-Center)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LOVV (Vienna ACC-Center)	LDZO (Zagreb ACC/APP)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LOVV (Vienna ACC-Center)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LOVV (Vienna ACC-Center)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Austria

Last updated on: 28/08/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LOVV (Vienna ACC-Center)	LIMM (Milan ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	I - Implemented	2 Voice Channels - further negotiation pending
LOVV (Vienna ACC-Center)	LIRR (Roma ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	I - Implemented	2 Voice Channels - further negotiation pending
LOVV (Vienna ACC-Center)	LJLJ (Ljubljana ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LOVV (Vienna ACC-Center)	LJLJ (Ljubljana ACC)	ATS-QSIG		Landline (Point-to- point)	Digital E1	O - Operational	
LOVV (Vienna ACC-Center)	LJLJ (Ljubljana ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LOVV (Vienna ACC-Center)	LJLJ (Ljubljana ACC)	ATS-R2		Landline (Point-to- point)		O - Operational	
LOVV (Vienna ACC-Center)	LKAA (Praha ACC)	ATM-VoIP (Telephone)		Ground ATM IP Network	PENS	I - Implemented	Primary Network: PENS; Backup Network: X-BONE

Austria

Last updated on: 28/08/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LOVV (Vienna ACC-Center)	LSAG (Geneva ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	Planned - Negotiation for Testing ongoing
LOVV (Vienna ACC-Center)	LSAZ (Zurich ACC)	ATS-QSIG		Landline (Point-to- point)	Digital E1	O - Operational	
LOVV (Vienna ACC-Center)	LSAZ (Zurich ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	Planned - Negotiation for Testing ongoing
LOVV (Vienna ACC-Center)	LZBB (Bratislava)	ATS-QSIG		Landline (Point-to- point)	Digital E1	O - Operational	
LOVV (Vienna ACC-Center)	LZBB (Bratislava)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LOVV (Vienna ACC-Center)	LZBB (Bratislava)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LOWG (Graz-Airport-LOWG)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to- point)		O - Operational	

Austria

Last updated on: 28/08/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LOWK (Klagenfurt-Airport-LOWK)	LJLJ (Ljubljana ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LOWS (Salzburg-Airport-LOWS)	EDMM (Muenchen ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LOWW (Wien/Schwechat-Airport-LOWW)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LOWW (Wien/Schwechat-Airport-LOWW)	LHCC (Budapest ACC R6)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LOWW (Wien/Schwechat-Airport-LOWW)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)		O - Operational	
LOWW (Wien/Schwechat-Airport-LOWW)	LIMM (Milan ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	I - Implemented	2 Voice Channels - further negotiation pending
LOWW (Wien/Schwechat-Airport-LOWW)	LIRR (Roma ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	I - Implemented	2 Voice Channels - further negotiation pending

Austria

Last updated on: 28/08/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LOWW (Wien/Schwechat-Airport-LOWW)	LSAG (Geneva ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	Planned - Negotiation for Testing ongoing
LOWW (Wien/Schwechat-Airport-LOWW)	LSAZ (Zurich ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	Planned - Negotiation for Testing ongoing
LOWW (Wien/Schwechat-Airport-LOWW)	LZIB (Bratislava Stefanik)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LOWW (Wien/Schwechat-Airport-LOWW)	LZIB (Bratislava Stefanik)	ATS-QSIG		Landline (Point-to- point)	Digital E1	O - Operational	

Belgium

Last updated on: 14/02/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EBBR (Brussels_CIV)	EDDL (Duesseldorf)	ATS-R2		Landline (Point-to-point)		O - Operational	
EBBR (Brussels_CIV)	EHAA (Amsterdam ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	
EBBR (Brussels_CIV)	EHBK (Beek Airport)	ATS-R2		Landline (Point-to-point)		O - Operational	
EBBR (Brussels_CIV)	EHML (Nieuw Milligen (Military))	ATS-R2		Landline (Point-to-point)		O - Operational	
EBBR (Brussels_CIV)	ELLX (Luxembourg Airport)	ATS-R2		Landline (Point-to-point)		O - Operational	
EBBR (Brussels_CIV)	LFEE (Reims ACC (CRNA E))	ATS-R2		Landline (Point-to-point)		O - Operational	
EBBR (Brussels_CIV)	LFFF (Paris ACC (CRNA N))	ATS-R2		Landline (Point-to-point)		O - Operational	
EBBR (Brussels_CIV)	LFQQ (Lille)	ATS-R2		Landline (Point-to-point)		O - Operational	

Belgium

Last updated on: 14/02/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EBBR (Brussels_CIV)	Vari (London FIR Airports)	ATS-R2		Landline (Point-to-point)		O - Operational	

Bosnia and Herzegovina

Last updated on: 04/10/2019

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LQMO (BHACC / JPAKL Mostar / APP - TWR)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LQSB (BHACC / ATCU I / ACC)	LDDU (Dubrovnik TWR/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	xcon LDZO
LQSB (BHACC / ATCU II / ACC)	LDZO (Zagreb ACC/APP)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LQSB (BHACC / ATCU I / ACC)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	xcon in Belgrade
LQSB (BHACC / ATCU II / ACC)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LQSB (BHACC / ATCU I / ACC)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LQSB (BHACC / ATCU I / ACC)	LDZO (Zagreb ACC/APP)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	

Bosnia and Herzegovina

Last updated on: 04/10/2019

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LQSB (BHACC / ATCU II / ACC)	LYBA (BEOGRAD ATCC)	ATS-QSIG		Landline (Point-to- point)	Digital E1	O - Operational	
LQSB (BHACC / ATCU II / ACC)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LQSB (BHACC / ATCU I / ACC)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	xcon LDZO
LQSB (BHACC / ATCU I / ACC)	LYBA (BEOGRAD ATCC)	ATS-QSIG		Landline (Point-to- point)	Digital E1	O - Operational	direct
LQSB (BHACC / ATCU I / ACC)	LYPG (PODGORICA)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	

Bulgaria

Last updated on: 08/04/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LBSF (Sofia ACC)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)		Ground ATM IP Network	PENS	O - Operational	NM over NewPENS
LBSF (Sofia ACC)	LGGG (Athens VCS)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LBSF (Sofia ACC)	LGTS (Thessaloniki)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LBSF (Sofia ACC)	LRBB (Bucuresti ACC/APP)	ATS-R2		Ground ATM IP Network		O - Operational	
LBSF (Sofia ACC)	LRBB (Bucuresti ACC/APP)	ATM-VoIP (Telephone)		Ground ATM IP Network		O - Operational	
LBSF (Sofia ACC)	LRBB (Bucuresti ACC/APP)	Other Telephony Interfaces		Satellite		O - Operational	2 w CB
LBSF (Sofia ACC)	LRCK (Constanta APP)	Other Telephony Interfaces		Satellite		O - Operational	
LBSF (Sofia ACC)	LTAC (Ankara ACC)	ATS-R2		Landline (Point-to- point)		O - Operational	
LBSF (Sofia ACC)	LTAC (Ankara ACC)	Other Telephony Interfaces		Satellite		O - Operational	2W CB

Bulgaria

Last updated on: 08/04/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LBSF (Sofia ACC)	LTBA (Istanbul ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LBSF (Sofia ACC)	LTBA (Istanbul ACC)	Other Telephony Interfaces		Satellite		O - Operational	2W CB
LBSF (Sofia ACC)	LWSK (Skopje ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LBSF (Sofia ACC)	LWSK (Skopje ACC)	Other Telephony Interfaces		Landline (Point-to-point)		O - Operational	2W CB from Routers
LBSF (Sofia ACC)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LBSF (Sofia ACC)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LBSF (Sofia ACC)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LBSF (Sofia ACC)	UKOO (ODESA ACC)	Other Telephony Interfaces		Satellite		O - Operational	

Croatia

Last updated on: 19/11/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LDDU (Dubrovnik TWR/APP)	LQSB (BHACC / ATCU I / ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LDDU (Dubrovnik TWR/APP)	LYPG (PODGORICA)	ATS-QSIG		Landline (Point-to- point)	Digital E1	O - Operational	Also used for calls to/from Tivat VCS.
LDPL (Pula TWR/APP)	LJPZ (Portoroz Airport)	ATS-R2		Landline (Point-to- point)		O - Operational	
LDZO (Zagreb ACC/APP)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LIBB (Brindisi ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LIBB (Brindisi ACC)	ATS-R2		Landline (Point-to- point)	Analog	O - Operational	
LDZO (Zagreb ACC/APP)	LIPP (Padova ACC)	ATS-R2		Landline (Point-to- point)	Analog	O - Operational	
LDZO (Zagreb ACC/APP)	LIPP (Padova ACC)	ATS-R2		Landline (Point-to- point)	Analog	O - Operational	

Croatia

Last updated on: 19/11/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LDZO (Zagreb ACC/APP)	LIRR (Roma ACC)	ATS-R2		Multiplexer		O - Operational	
LDZO (Zagreb ACC/APP)	LJLJ (Ljubljana ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LJLJ (Ljubljana ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LJLJ (Ljubljana ACC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LOVV (Vienna ACC-Center)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LOVV (Vienna ACC-Center)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LOWG (Graz-Airport-LOWG)	ATS-R2		Landline (Point-to-point)		O - Operational	
LDZO (Zagreb ACC/APP)	LQMO (BHACC / JPAKL Mostar / APP - TWR)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	Leased analogue line

Croatia

Last updated on: 19/11/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LDZO (Zagreb ACC/APP)	LQSB (BHACC / ATCU I / ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LQSB (BHACC / ATCU I / ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LQSB (BHACC / ATCU II / ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	leased analogue line
LDZO (Zagreb ACC/APP)	LQSB (BHACC / ATCU I / ACC)	ATS-QSIG		Landline (Point-to- point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LQSB (BHACC / ATCU II / ACC)	ATS-QSIG		Landline (Point-to- point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LYBA (BEOGRAD ATCC)	ATS-QSIG		Landline (Point-to- point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LDZO (Zagreb ACC/APP)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	

Croatia

Last updated on: 19/11/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LDZO (Zagreb ACC/APP)	LYPG (PODGORICA)	LB		Landline (Point-to-point)		O - Operational	E&M - LB

Cyprus

Last updated on: 20/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LCCC (Nicosia ACC/FIC)	LGGG (Athens VCS)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Czech Republic

Last updated on: 18/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LKAA (Praha ACC)	EDMM (Muenchen ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
LKAA (Praha ACC)	EDUU (Karlsruhe UAC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
LKAA (Praha ACC)	EPWW (Warszawa ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LKAA (Praha ACC)	LOVV (Vienna ACC-Center)	ATS-R2		Ground ATM IP Network		P - Planned	
LKAA (Praha ACC)	LOWL (Linz-Airport-LOWL)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LKAA (Praha ACC)	LOWL (Linz-Airport-LOWL)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LKAA (Praha ACC)	LZBB (Bratislava)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Denmark

Last updated on: 18/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
BGGL (NUUK INFORMATION)	BIRD (Reykjavik ACC/APP)	ATM-VoIP (Telephone)	ED-137C	Ground ATM IP Network	PENS	O - Operational	
BGGL (NUUK INFORMATION)	CZEG (ATC EDMONTON)	ATS-N5		Landline (Point-to- point)		O - Operational	
BGGL (NUUK INFORMATION)	CZQX (ATC GANDER)	ATS-N5		Landline (Point-to- point)		O - Operational	
EKDK (Copenhagen ACC/APP/TWR/ATW R)	EDUU (Karlsruhe UAC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EKDK (Copenhagen ACC/APP/TWR/ATW R)	EDWW (Bremen ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EKDK (Copenhagen ACC/APP/TWR/ATW R)	EDYY (EUROCONTROL Maastricht UAC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EKDK (Copenhagen ACC/APP/TWR/ATW R)	EDYY (EUROCONTROL Maastricht UAC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	

Denmark

Last updated on: 18/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EKDK (Copenhagen ACC/APP/TWR/ATW R)	EGPX (Prestwick ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	NewPENS
EKDK (Copenhagen ACC/APP/TWR/ATW R)	EGTT (Swanwick Area Control & LJAO (Military))	ATM-VoIP (Telephone)		Ground ATM IP Network	PENS	O - Operational	NewPENS
EKDK (Copenhagen ACC/APP/TWR/ATW R)	EHAA (Amsterdam ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EKDK (Copenhagen ACC/APP/TWR/ATW R)	ENOS (Oslo ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EKDK (Copenhagen ACC/APP/TWR/ATW R)	ENSV (Stavanger ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EKDK (Copenhagen ACC/APP/TWR/ATW R)	ESGG (Landvetter TWR/APP)	ATS-R2		Ground ATM IP Network	Other	O - Operational	Via MUX in ESMM

Denmark

Last updated on: 18/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EKDK (Copenhagen ACC/APP/TWR/ATW R)	ESMM (Malmö ATCC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	

Estonia

Last updated on: 26/03/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EETT (Tallinn ACC)	EFIN (Helsinki ATCC)	Other Telephony Interfaces		Landline (Point-to- point)	IP Point-to-Point	O - Operational	
EETT (Tallinn ACC)	ESMM (Malmö ATCC)	Other Telephony Interfaces		Landline (Point-to- point)	Analog	O - Operational	
EETT (Tallinn ACC)	ESMM (Malmö ATCC)	ATM-VoIP (Telephone)	ED-137C	Ground ATM IP Network	PENS	I - Implemented	
EETT (Tallinn ACC)	ESOS (Stockholm ATCC)	Other Telephony Interfaces		Landline (Point-to- point)	Analog	O - Operational	
EETT (Tallinn ACC)	ESOS (Stockholm ATCC)	ATM-VoIP (Telephone)		Ground ATM IP Network	PENS	I - Implemented	
EETT (Tallinn ACC)	EVRR (Riga ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	

EUROCONTROL MUAC

Last updated on: 17/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EDYY (EUROCONTROL Maastricht UAC)	EBBR (Brussels_CIV)	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE Network
EDYY (EUROCONTROL Maastricht UAC)	EBBR (Brussels_MIL)	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE network
EDYY (EUROCONTROL Maastricht UAC)	EDGG (Langen ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE Network
EDYY (EUROCONTROL Maastricht UAC)	EDGG (Langen ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDYY (EUROCONTROL Maastricht UAC)	EDMM (Muenchen ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE Network
EDYY (EUROCONTROL Maastricht UAC)	EDMM (Muenchen ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDYY (EUROCONTROL Maastricht UAC)	EDUU (Karlsruhe UAC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE Network

EUROCONTROL MUAC

Last updated on: 17/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EDYY (EUROCONTROL Maastricht UAC)	EDUU (Karlsruhe UAC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDYY (EUROCONTROL Maastricht UAC)	EDWW (Bremen ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE Network
EDYY (EUROCONTROL Maastricht UAC)	EDWW (Bremen ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDYY (EUROCONTROL Maastricht UAC)	EGPX (Prestwick ACC)	ATM-VoIP (Telephone)		Ground ATM IP Network	PENS	P - Planned	
EDYY (EUROCONTROL Maastricht UAC)	EGTT (Swanwick Area Control & LJAO (Military))	ATM-VoIP (Telephone)		Ground ATM IP Network	PENS	P - Planned	
EDYY (EUROCONTROL Maastricht UAC)	EGTT (Swanwick Area Control & LJAO (Military))	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE Network
EDYY (EUROCONTROL Maastricht UAC)	EHAA (Amsterdam ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE Network

EUROCONTROL MUAC

Last updated on: 17/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EDYY (EUROCONTROL Maastricht UAC)	EHBK (Beek Airport)	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE network
EDYY (EUROCONTROL Maastricht UAC)	EHML (Nieuw Milligen (Military))	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE Network
EDYY (EUROCONTROL Maastricht UAC)	EKDK (Copenhagen ACC/APP/TWR/AT WR)	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE Network
EDYY (EUROCONTROL Maastricht UAC)	EKDK (Copenhagen ACC/APP/TWR/AT WR)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
EDYY (EUROCONTROL Maastricht UAC)	EUCH (EUROCONTROL NM)	Other Telephony Interfaces		Ground ATM IP Network	Other	O - Operational	Corporate Backbone
EDYY (EUROCONTROL Maastricht UAC)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDYY (EUROCONTROL Maastricht UAC)	LFEE (Reims ACC (CRNA E))	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE Network

EUROCONTROL MUAC

Last updated on: 17/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EDYY (EUROCONTROL Maastricht UAC)	LFFF (Paris ACC (CRNA N))	ATS-R2		Ground ATM IP Network	Other	O - Operational	MONIQUE Network

EUROCONTROL NM Haren

Last updated on: 14/05/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EUCH (EUROCONTROL NM)	EBBR (Brussels_CIV)	ATS-R2		Landline (Point-to-point)		O - Operational	
EUCH (EUROCONTROL NM)	LFBB (Bordeaux ACC (CRNA SO))	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EUCH (EUROCONTROL NM)	LFFF (Paris ACC (CRNA N))	ATS-R2		Ground ATM IP Network	PENS	O - Operational	
EUCH (EUROCONTROL NM)	LGGG (Athens VCS)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	
EUCH (EUROCONTROL NM)	LIRR (Roma ACC)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	ATS-MFC Tunnel inside an ip Network. The VCS are connected with 'MFC-R2' links to converters. Those converters encapsulate the MFC/R2 traffic inside IP Packets.

EUROCONTROL NM Haren

Last updated on: 14/05/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EUCH (EUROCONTROL NM)	LOVV (Vienna ACC- Center)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	ATS-MFC Converters used at both end of the circuit, The VCS are connected with 'MFC-R2" links to those converters
EUCH (EUROCONTROL NM)	LPPT (Lisbon Airport)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	
EUCH (EUROCONTROL NM)	LTBA (Istanbul ACC)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	MFC/R2 connection to converters. Those converters digitalise the MFC R/2 packets and ancapsulate them inside an ip Tunnel overs PENS.

Germany

Last updated on: 18/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EDGG (Langen ACC)	EBBR (Brussels_CIV)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDGG (Langen ACC)	EBBR (Brussels_CIV)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDGG (Langen ACC)	EDYY (EUROCONTROL Maastricht UAC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDGG (Langen ACC)	EHAA (Amsterdam ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDGG (Langen ACC)	EHAA (Amsterdam ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDGG (Langen ACC)	EHBK (Beek Airport)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDGG (Langen ACC)	EHBK (Beek Airport)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDGG (Langen ACC)	ELLX (Luxembourg Airport)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDGG (Langen ACC)	ELLX (Luxembourg Airport)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	

Germany

Last updated on: 18/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EDGG (Langen ACC)	EUCH (EUROCONTROL NM)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDGG (Langen ACC)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDGG (Langen ACC)	LFEE (Reims ACC (CRNA E))	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDGG (Langen ACC)	LFEE (Reims ACC (CRNA E))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDGG (Langen ACC)	LFST (Strasbourg Entzheim)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDGG (Langen ACC)	LFST (Strasbourg Entzheim)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDGG (Langen ACC)	LSAZ (Zurich ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDMM (Muenchen ACC)	EDYY (EUROCONTROL Maastricht UAC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	

Germany

Last updated on: 18/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EDMM (Muenchen ACC)	EPWW (Warszawa ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDMM (Muenchen ACC)	EPWW (Warszawa ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDMM (Muenchen ACC)	LIPP (Padova ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDMM (Muenchen ACC)	LIPP (Padova ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDMM (Muenchen ACC)	LKAA (Praha ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDMM (Muenchen ACC)	LKAA (Praha ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDMM (Muenchen ACC)	LOVV (Vienna ACC-Center)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDMM (Muenchen ACC)	LOVV (Vienna ACC-Center)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDMM (Muenchen ACC)	LOWI (Innsbruck-Airport-LOWI)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Germany

Last updated on: 18/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EDMM (Muenchen ACC)	LOWI (Innsbruck-Airport-LOWI)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDMM (Muenchen ACC)	LOWL (Linz-Airport-LOWL)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
EDMM (Muenchen ACC)	LOWL (Linz-Airport-LOWL)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDMM (Muenchen ACC)	LOWS (Salzburg-Airport-LOWS)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
EDMM (Muenchen ACC)	LOWS (Salzburg-Airport-LOWS)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDMM (Muenchen ACC)	LSAZ (Zurich ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
EDMM (Muenchen ACC)	LSAZ (Zurich ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDUU (Karlsruhe UAC)	EDYY (EUROCONTROL Maastricht UAC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	

Germany

Last updated on: 18/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EDJU (Karlsruhe UAC)	EKDK (Copenhagen ACC/APP/TWR/AT WR)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDJU (Karlsruhe UAC)	EKDK (Copenhagen ACC/APP/TWR/AT WR)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDJU (Karlsruhe UAC)	EPWW (Warszawa ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDJU (Karlsruhe UAC)	EPWW (Warszawa ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDJU (Karlsruhe UAC)	ESMM (Malmö ATCC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDJU (Karlsruhe UAC)	ESMM (Malmö ATCC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDJU (Karlsruhe UAC)	LIPP (Padova ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDJU (Karlsruhe UAC)	LKAA (Praha ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDJU (Karlsruhe UAC)	LKAA (Praha ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	

Germany

Last updated on: 18/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EDUU (Karlsruhe UAC)	LOVV (Vienna ACC-Center)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDUU (Karlsruhe UAC)	LOVV (Vienna ACC-Center)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDUU (Karlsruhe UAC)	LSAG (Geneva ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDUU (Karlsruhe UAC)	LSAZ (Zurich ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDUU (Karlsruhe UAC)	LSAZ (Zurich ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDWW (Bremen ACC)	EDYY (EUROCONTROL Maastricht UAC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDWW (Bremen ACC)	EHAA (Amsterdam ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDWW (Bremen ACC)	EHAA (Amsterdam ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDWW (Bremen ACC)	EHGG (Groningen/Eelde Airport)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Germany

Last updated on: 18/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EDWW (Bremen ACC)	EHGG (Groningen/Eelde Airport)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDWW (Bremen ACC)	EKDK (Copenhagen ACC/APP/TWR/ATWR)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDWW (Bremen ACC)	EKDK (Copenhagen ACC/APP/TWR/ATWR)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDWW (Bremen ACC)	EPWW (Warszawa ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDWW (Bremen ACC)	EPWW (Warszawa ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EDWW (Bremen ACC)	ESMM (Malmö ATCC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EDWW (Bremen ACC)	ESMM (Malmö ATCC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	

Gibraltar

Last updated on: 25/03/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LXGB (Gibraltar TWR/APP)	LECS (Sevilla en Route ACC)	ATS-R2		Landline (Point-to-point)	Analog	O - Operational	

Greece

Last updated on: 18/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LGGG (Athens VCS)	EUCH (EUROCONTROL NM)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	
LGGG (Athens VCS)	HECC (Cairo ACC)	LB		Landline (Point-to- point)	Digital E1	O - Operational	
LGGG (Athens VCS)	HECC (Cairo ACC)	ATM-VoIP (Telephone)		Ground ATM IP Network	Other	O - Operational	
LGGG (Athens VCS)	LAAA (Tirana ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LGGG (Athens VCS)	LBSF (Sofia ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LGGG (Athens VCS)	LCCC (Nicosia ACC/FIC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LGGG (Athens VCS)	LCCC (Nicosia ACC/FIC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
LGGG (Athens VCS)	LIBB (Brindisi ACC)	ATS-R2		Landline (Point-to- point)	Analog	O - Operational	
LGGG (Athens VCS)	LIBB (Brindisi ACC)	ATS-R2		Landline (Point-to- point)	Analog	O - Operational	

Greece

Last updated on: 18/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LGGG (Athens VCS)	LMMM (Malta ACC)	ATS-R2		Ground ATM IP Network		O - Operational	We use VoIP communication using VoIP to MFC/R2 gateways
LGGG (Athens VCS)	LTAC (Ankara ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LGGG (Athens VCS)	LTBA (Istanbul ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LGGG (Athens VCS)	LTBA (Istanbul ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LGGG (Athens VCS)	LTBJ (Izmir Airport)	LB		Landline (Point-to-point)	Digital E1	O - Operational	
LGGG (Athens VCS)	LWSK (Skopje ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LGGG (Athens VCS)	LWSK (Skopje ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LGKR (Kerkira)	LAAA (Tirana ACC)	LB		Landline (Point-to-point)		O - Operational	
LGKR (Kerkira)	LIBB (Brindisi ACC)	LB		Landline (Point-to-point)		O - Operational	

Greece

Last updated on: 18/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LGTS (Thessaloniki)	LBSF (Sofia ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LGTS (Thessaloniki)	LWSK (Skopje ACC)	LB		Landline (Point-to-point)		O - Operational	

Hungary

Last updated on: 17/11/2022

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LHCC (Budapest ACC R6)	LAAA (Tirana ACC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	3710xx
LHCC (Budapest ACC R6)	LAAA (Tirana ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3710xx
LHCC (Budapest ACC R6)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3791xx
LHCC (Budapest ACC R6)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3791xx
LHCC (Budapest ACC VoIP R8)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC VoIP R8)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC R6)	LJLJ (Ljubljana ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	via LVOV 3717xx, 3718xx, 3719xx
LHCC (Budapest ACC VoIP R8)	LJLJ (Ljubljana ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC R6)	LJLJ (Ljubljana ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	via LDZO 3717xx, 3718xx, 3719xx

Hungary

Last updated on: 17/11/2022

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LHCC (Budapest ACC VoIP R8)	LJLJ (Ljubljana ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC VoIP R8)	LOVV (Vienna ACC Administration)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC VoIP R8)	LOVV (Vienna ACC Administration)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC VoIP R8)	LOVV (Vienna ACC-Center)	ATM-VoIP (Telephone)		Ground ATM IP Network		P - Planned	testing is under negotiation
LHCC (Budapest ACC VoIP R8)	LOVV (Vienna ACC-Center)	ATM-VoIP (Telephone)		Ground ATM IP Network		P - Planned	testing is under negotiation
LHCC (Budapest ACC R6)	LOWW (Wien/Schwechat-Airport-LOWW)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3654xx, 3660xx, 3661xx, 3665xx, 3668xx, 3696xx
LHCC (Budapest ACC R6)	LOWW (Wien/Schwechat-Airport-LOWW)	ATS-QSIG		Landline (Point-to-point)	Digital E1	I - Implemented	3490xx, 3491xx, 3492xx to EBBU

Hungary

Last updated on: 17/11/2022

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LHCC (Budapest ACC VoIP R8)	LOWW (Wien/Schwechat-Airport-LOWW)	ATS-R2		Landline (Point-to-point)		O - Operational	
LHCC (Budapest ACC R6)	LOWW (Wien/Schwechat-Airport-LOWW)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3654xx, 3660xx, 3661xx, 3665xx, 3668xx, 3696xx
LHCC (Budapest ACC R6)	LOWW (Wien/Schwechat-Airport-LOWW)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3654xx, 3660xx, 3661xx, 3665xx, 3668xx, 3696xx
LHCC (Budapest ACC VoIP R8)	LOWW (Wien/Schwechat-Airport-LOWW)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC R6)	LOWW (Wien/Schwechat-Airport-LOWW)	ATS-R2		Landline (Point-to-point)		O - Operational	3654xx, 3660xx, 3661xx, 3665xx, 3668xx, 3696xx
LHCC (Budapest ACC VoIP R8)	LOWW (Wien/Schwechat-Airport-LOWW)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC VoIP R8)	LRAR (Arad APP)	ATS-R2		Ground ATM IP Network		O - Operational	

Hungary

Last updated on: 17/11/2022

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LHCC (Budapest ACC R6)	LRBB (Bucuresti ACC/APP)	ATS-R2		Ground ATM IP Network		O - Operational	LRBB - LRAR via LRBB, LRAR, LROP via LRAR 3770xx, 3771xx
LHCC (Budapest ACC R6)	LRBB (Bucuresti ACC/APP)	ATS-R2		Ground ATM IP Network		O - Operational	LRBB - LRAR via LRBB, LRAR, LROP via LRAR 3770xx, 3771xx
LHCC (Budapest ACC R6)	LRBB (Bucuresti ACC/APP)	ATS-R2		Ground ATM IP Network		O - Operational	LRBB - LRAR via LRBB, LRAR, LROP via LRAR 3770xx, 3771xx
LHCC (Budapest ACC R6)	LRBB (Bucuresti ACC/APP)	ATS-R2		Ground ATM IP Network		O - Operational	LRBB - LRAR via LRBB, LRAR, LROP via LRAR 3770xx, 3771xx
LHCC (Budapest ACC R6)	LRBB (Bucuresti ACC/APP)	ATS-R2		Ground ATM IP Network		O - Operational	LRBB - LRAR via LRBB, LRAR, LROP via LRAR 3770xx, 3771xx
LHCC (Budapest ACC VoIP R8)	LRBB (Bucuresti ACC/APP)	ATM-VoIP (Telephone)		Ground ATM IP Network		P - Planned	testing is under negotiation
LHCC (Budapest ACC VoIP R8)	LRBB (Bucuresti ACC/APP)	ATM-VoIP (Telephone)		Ground ATM IP Network		P - Planned	testing is under negotiation

Hungary

Last updated on: 17/11/2022

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LHCC (Budapest ACC R6)	LWSK (Skopje ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3783xx
LHCC (Budapest ACC R6)	LWSK (Skopje ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3783xx
LHCC (Budapest ACC VoIP R8)	LWSK (Skopje ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC VoIP R8)	LWSK (Skopje ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC R6)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	LYBA, LYBE 3798xx
LHCC (Budapest ACC R6)	LYBA (BEOGRAD ATCC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	LYBA, LYBE 3798xx
LHCC (Budapest ACC VoIP R8)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC VoIP R8)	LYBA (BEOGRAD ATCC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC R6)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	LYBA, LYBE 3798xx

Hungary

Last updated on: 17/11/2022

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LHCC (Budapest ACC VoIP R8)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC R6)	LZBB (Bratislava)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3618xx, 3620xx, 3621xx, 3622xx, 3628xx, 3629xx
LHCC (Budapest ACC R6)	LZBB (Bratislava)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	3618xx, 3620xx, 3621xx, 3622xx, 3628xx, 3629xx
LHCC (Budapest ACC R6)	LZBB (Bratislava)	ATS-R2		Landline (Point-to-point)		O - Operational	3618xx, 3620xx, 3621xx, 3622xx, 3628xx, 3629xx
LHCC (Budapest ACC VoIP R8)	LZBB (Bratislava)	ATS-R2		Landline (Point-to-point)		O - Operational	
LHCC (Budapest ACC VoIP R8)	LZBB (Bratislava)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC VoIP R8)	LZBB (Bratislava)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC VoIP R8)	LZBB (Bratislava)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Hungary

Last updated on: 17/11/2022

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LHCC (Budapest ACC R6)	LZBB (Bratislava)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3618xx, 3620xx, 3621xx, 3622xx, 3628xx, 3629xx
LHCC (Budapest ACC R6)	LZIB (Bratislava Stefanik)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	LZIB 36277x, 36278x
LHCC (Budapest ACC VoIP R8)	LZIB (Bratislava Stefanik)	ATS-QSIG		Landline (Point-to-point)	Digital E1	I - Implemented	
LHCC (Budapest ACC R6)	LZKZ (Kosice)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	LZKZ 36270x
LHCC (Budapest ACC VoIP R8)	LZKZ (Kosice)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LHCC (Budapest ACC R6)	UKLL (L'VIV ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	LVOV 3810xx, 3812xx
LHCC (Budapest ACC VoIP R8)	UKLL (L'VIV ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Iceland

Last updated on: 12/02/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
BIRD (Reykjavik ACC/APP)	BGGL (NUUK INFORMATION)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
BIRD (Reykjavik ACC/APP)	CZEG (Edmonton ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
BIRD (Reykjavik ACC/APP)	CZQX (ATC GANDER)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
BIRD (Reykjavik ACC/APP)	EGGX (Shanwick OAC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
BIRD (Reykjavik ACC/APP)	EGPX (Prestwick ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
BIRD (Reykjavik ACC/APP)	ENBD (Bodo ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
BIRD (Reykjavik ACC/APP)	ENSV (Stavanger ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	

Ireland

Last updated on: 18/11/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EIDW (Dublin ACC/APP/TWR)	EGPX (Prestwick ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
EIDW (Dublin ACC/APP/TWR)	EGTT (Swanwick Area Control & LJAO (Military))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
EISN (Shannon ACC)	EGGX (Shanwick OAC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
EISN (Shannon ACC)	EGGX (Shanwick OAC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EISN (Shannon ACC)	EGPX (Prestwick ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	
EISN (Shannon ACC)	EGPX (Prestwick ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
EISN (Shannon ACC)	LFRR (Brest ACC (CRNA O))	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	

Italy

Last updated on: 17/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LIBB (Brindisi ACC)	LAAA (Tirana ACC)	ATS-R2		Landline (Point-to-point)	Digital 64 kbps	O - Operational	
LIBB (Brindisi ACC)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Analog	O - Operational	
LIBB (Brindisi ACC)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LIBB (Brindisi ACC)	LGGG (Athens VCS)	ATS-R2		Landline (Point-to-point)	Analog	O - Operational	
LIBB (Brindisi ACC)	LGGG (Athens VCS)	ATS-R2		Landline (Point-to-point)	Analog	O - Operational	
LIBB (Brindisi ACC)	LGKR (Kerkira)	ATS-R2		Landline (Point-to-point)	Analog	O - Operational	
LIBB (Brindisi ACC)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LICD (Lampedusa)	LMMM (Malta ACC)	ATS-R2		Landline (Point-to-point)		I - Implemented	
LIMM (Milan ACC)	LFKB (Bastia/Poretta, Corse)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Italy

Last updated on: 17/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LIMM (Milan ACC)	LFMM (Marseille ACC (CRNA SE))	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LIMM (Milan ACC)	LFMN (Nice)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LIMM (Milan ACC)	LSAG (Geneva ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LIMM (Milan ACC)	LSAZ (Zurich ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LIMM (Milan ACC)	LSZA (Lugano airport)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	dismissed from 2006
LIMM (Milan ACC)	LSZA (Lugano airport)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	no additional info on this line, supposed to be dismissed
LIPP (Padova ACC)	EDMM (Muenchen ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LIPP (Padova ACC)	EDUU (Karlsruhe UAC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LIPP (Padova ACC)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Analog	O - Operational	

Italy

Last updated on: 17/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LIPP (Padova ACC)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Analog	O - Operational	
LIPP (Padova ACC)	LJLJ (Ljubljana ACC)	ATS-R2		Landline (Point-to-point)	Analog	O - Operational	
LIPP (Padova ACC)	LOVV (Vienna ACC-Center)	ATS-R2		Landline (Point-to-point)	Analog	O - Operational	
LIPP (Padova ACC)	LOVV (Vienna ACC-Center)	ATS-R2		Landline (Point-to-point)	Analog	O - Operational	
LIPP (Padova ACC)	LSAZ (Zurich ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LIPQ (Trieste/Ronchi dei Legionari)	LJPZ (Portoroz Airport)	LB		Landline (Point-to-point)		O - Operational	Connection aimed to APP coordination between Trieste and Portoroz
LIRR (Roma ACC)	DTTC (Tunis ACC)	Other Telephony Interfaces		Landline (Point-to-point)		O - Operational	PABX-CB
LIRR (Roma ACC)	DTTC (Tunis ACC)	Other Telephony Interfaces		Landline (Point-to-point)		O - Operational	PABX-CB
LIRR (Roma ACC)	DTTC (Tunis ACC)	Other Telephony Interfaces		Landline (Point-to-point)		O - Operational	PABX-CB

Italy

Last updated on: 17/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LIRR (Roma ACC)	EUCH (EUROCONTROL NM)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	
LIRR (Roma ACC)	LDZO (Zagreb ACC/APP)	ATS-R2		Multiplexer		O - Operational	This connection is provided via Enav's operational network "E-Net2" (IP) from Rome to Brindisi ACC. The next communication segment is forwarded via E1 multiplexing towards Zagreb. Operationally, the whole communication link appears as a direct connection between Rome and Zagreb.
LIRR (Roma ACC)	LFKB (Bastia/Poretta, Corse)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Italy

Last updated on: 17/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LIRR (Roma ACC)	LFKJ (Ajaccio/Campo dell'oro, Corse)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LIRR (Roma ACC)	LFMM (Marseille ACC (CRNA SE))	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LIRR (Roma ACC)	LMMM (Malta ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LIRR (Roma ACC)	LMMM (Malta ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	Probably dismissed. Further checking required

Latvia

Last updated on: 18/08/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EVRR (Riga ACC)	EETT (Tallinn ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
EVRR (Riga ACC)	ESMM (Malmö ATCC)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	NewPENS voIP VPN & MFCoverIP gateway
EVRR (Riga ACC)	ESOS (Stockholm ATCC)	Other Telephony Interfaces		Ground ATM IP Network		O - Operational	Dial-up (PSTN)
EVRR (Riga ACC)	EYVC (Vilnius)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
EVRR (Riga ACC)	ULLL (Saint Petersburg ACC)	ATS-R2		Landline (Point-to- point)		O - Operational	
EVRR (Riga ACC)	UMMV (MINSK ACC)	Other Telephony Interfaces		Ground ATM IP Network	Other	O - Operational	PBX (non ED-137) through dedicated channel

Lithuania

Last updated on: 06/08/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EYVC (Vilnius)	EPWW (Warszawa ACC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
EYVC (Vilnius)	ESMM (Malmö ATCC)	Other Telephony Interfaces		Public Network		O - Operational	
EYVC (Vilnius)	EVRR (Riga ACC)	Other Telephony Interfaces		Public Network		O - Operational	
EYVC (Vilnius)	EVRR (Riga ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
EYVC (Vilnius)	UMKK (Kaliningrad ACC)	Other Telephony Interfaces		Landline (Point-to-point)	Digital E1	O - Operational	via PBX
EYVC (Vilnius)	UMMV (MINSK ACC)	ATM-VoIP (Telephone)		Ground ATM IP Network	Other	O - Operational	

Malta

Last updated on: 26/01/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LMMM (Malta ACC)	LGGG (Athens VCS)	ATM-VoIP (Telephone)		Ground ATM IP Network		O - Operational	VoIP to MFC/R2 gateway
LMMM (Malta ACC)	LIRR (Roma ACC)	ATM-VoIP (Telephone)		Ground ATM IP Network		O - Operational	2nd connection
LMMM (Malta ACC)	LIRR (Roma ACC)	ATM-VoIP (Telephone)		Ground ATM IP Network		O - Operational	1st connection

Montenegro

Last updated on: 03/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
(GRS Podgorica)	LYBA (BEOGRAD ATCC)	ATM-VoIP (Radio)	ED-137B	Ground ATM IP Network	Other	O - Operational	
(GRS Dobra Voda)	LYBA (BEOGRAD ATCC)	ATM-VoIP (Radio)	ED-137B	Ground ATM IP Network	Other	O - Operational	
(GRS Podgorica)	LYTV (TIVAT)	ATM-VoIP (Radio)	ED-137B	Ground ATM IP Network	Other	O - Operational	
(GRS Dobra Voda)	LYTV (TIVAT)	ATM-VoIP (Radio)	ED-137B	Ground ATM IP Network	Other	O - Operational	

Morocco

Last updated on: 26/03/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
GMAC (Agadir ACC)	GCCC (Canarias en Route ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
GMAC (Agadir ACC)	GCCC (Canarias en Route ACC)	ATS-N5		Satellite	Digital	O - Operational	
GMAC (Agadir ACC)	LECS (Sevilla en Route ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
GMAC (Agadir ACC)	LPPC (Lisboa ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
GMAC (Agadir ACC)	LPPC (Lisboa ACC)	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	Link over AEFMP TDM network
GMMM (Casablanca ACC)	GCCC (Canarias en Route ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
GMMM (Casablanca ACC)	GCCC (Canarias en Route ACC)	ATS-N5		Satellite		O - Operational	
GMMM (Casablanca ACC)	LECS (Sevilla en Route ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	

Morocco

Last updated on: 26/03/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
GMMM (Casablanca ACC)	LPPC (Lisboa ACC)	Other Telephony Interfaces		Public Network		O - Operational	

North Macedonia

Last updated on: 19/02/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LWSK (Skopje ACC)	LAAA (Tirana ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LWSK (Skopje ACC)	LBSF (Sofia ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LWSK (Skopje ACC)	LBSF (Sofia ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network		P - Planned	
LWSK (Skopje ACC)	LGGG (Athens VCS)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LWSK (Skopje ACC)	LGGG (Athens VCS)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LWSK (Skopje ACC)	LGTS (Thessaloniki)	LB		Landline (Point-to-point)		O - Operational	
LWSK (Skopje ACC)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LWSK (Skopje ACC)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LWSK (Skopje ACC)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to-point)		O - Operational	

North Macedonia

Last updated on: 19/02/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LWSK (Skopje ACC)	LYBA (BEOGRAD ATCC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LWSK (Skopje ACC)	LYBA (BEOGRAD ATCC)	ATM-VoIP (Telephone)		Ground ATM IP Network		P - Planned	

Norway

Last updated on: 17/02/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
ENBD (Bodo ACC)	BIRD (Reykjavik ACC/APP)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
ENBD (Bodo ACC)	EFIN (Helsinki ATCC)	Other Telephony Interfaces		Public Network		O - Operational	
ENBD (Bodo ACC)	EFIN (Helsinki ATCC)	ATM-VoIP (Telephone)	ED-137C	Ground ATM IP Network	PENS	P - Planned	
ENBD (Bodo ACC)	ESOS (Stockholm ATCC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	Via Nordic Ring
ENBD (Bodo ACC)	ULLI (Saint Petersburg)	Other Telephony Interfaces		Public Network		O - Operational	
ENKR (Kirkenes TWR)	EFIN (Helsinki ATCC)	Other Telephony Interfaces		Public Network		O - Operational	
ENOS (Oslo ACC)	EKDK (Copenhagen ACC/APP/TWR/AT WR)	ATS-R2		Ground ATM IP Network	Other	O - Operational	Via Nordic Ring
ENOS (Oslo ACC)	ESMM (Malmö ATCC)	ATS-R2		Ground ATM IP Network		O - Operational	Via Nordic Ring
ENOS (Oslo ACC)	ESOS (Stockholm ATCC)	ATS-R2		Ground ATM IP Network		O - Operational	Via Nordic Ring

Norway

Last updated on: 17/02/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
ENSV (Stavanger ACC)	BIRD (Reykjavik ACC/APP)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
ENSV (Stavanger ACC)	EGPX (Prestwick ACC)	Other Telephony Interfaces		Public Network		O - Operational	
ENSV (Stavanger ACC)	EKDK (Copenhagen ACC/APP/TWR/AT WR)	ATS-R2		Ground ATM IP Network	Other	O - Operational	Via Nordic Ring

Poland

Last updated on: null

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EPGD (Gdansk)	ESMM (Malmö ATCC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EPWW (Warszawa ACC)	EDMM (Muenchen ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EPWW (Warszawa ACC)	EDUU (Karlsruhe UAC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EPWW (Warszawa ACC)	EDWW (Bremen ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EPWW (Warszawa ACC)	LKAA (Praha ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EPWW (Warszawa ACC)	UKLL (L'VIV ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EPWW (Warszawa ACC)	UMKK (Kaliningrad ACC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
EPWW (Warszawa ACC)	UMMV (MINSK ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Portugal

Last updated on: 29/10/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LPFR (Faro Airport)	LECS (Sevilla en Route ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
LPPC (Lisboa ACC)	EUCH (EUROCONTROL NM)	ATS-R2		Landline (Point-to-point)		O - Operational	
LPPC (Lisboa ACC)	GCCC (Canarias en Route ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
LPPC (Lisboa ACC)	GMAC (Agadir ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
LPPC (Lisboa ACC)	LECG (Santiago APP)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	
LPPC (Lisboa ACC)	LECM (Madrid en Route ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
LPPC (Lisboa ACC)	LECS (Sevilla en Route ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
LPPO (Santa Maria Oceanic OAC)	EGGX (Shanwick OAC)	Other Telephony Interfaces		Landline (Point-to-point)	Digital E1	O - Operational	E&M

Portugal

Last updated on: 29/10/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LPPO (Santa Maria Oceanic OAC)	EGGX (Shanwick OAC)	ATM-VoIP (Telephone)		Ground ATM IP Network	PENS	O - Operational	
LPPO (Santa Maria Oceanic OAC)	GCCC (Canarias en Route ACC)	Other Telephony Interfaces		Satellite		O - Operational	E&M
LPPO (Santa Maria Oceanic OAC)	LECM (Madrid en Route ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
LPPR (Porto Airport)	LECG (Santiago APP)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	Transit ATSSIP to ATSR2 in LPPC VCS
LPPR (Porto Airport)	LECM (Madrid en Route ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	Transit ATSSIP to ATSR2 in LPPC VCS

Republic of Moldova

Last updated on: 17/02/2022

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LUKK (Chisinau)	LRBB (Bucuresti ACC/APP)	ATS-R2		Ground ATM IP Network		O - Operational	
LUKK (Chisinau)	UKBB (KYIV ACC)	ATS-R2		Ground ATM IP Network		O - Operational	
LUKK (Chisinau)	UKLL (L'VIV ACC)	ATS-R2		Ground ATM IP Network		O - Operational	
LUKK (Chisinau)	UKOO (ODESA ACC)	ATS-R2		Ground ATM IP Network		O - Operational	

Romania

Last updated on: 20/03/2018

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LRAR (Arad APP)	LHCC (Budapest ACC R6)	ATS-R2		Ground ATM IP Network		O - Operational	
LRBB (Bucuresti ACC/APP)	LBSF (Sofia ACC)	ATS-R2		Ground ATM IP Network		O - Operational	
LRBB (Bucuresti ACC/APP)	LBSF (Sofia ACC)	Other Telephony Interfaces		Satellite		O - Operational	2wCB
LRBB (Bucuresti ACC/APP)	LBWN (Varna APP/TWR)	Other Telephony Interfaces		Satellite		I - Implemented	2wCB
LRBB (Bucuresti ACC/APP)	LYBA (BEOGRAD ATCC)	ATS-R2		Ground ATM IP Network		O - Operational	2MFC+data/2Mbps
LRBB (Bucuresti ACC/APP)	UKLL (L'VIV ACC)	ATS-R2		Landline (Point-to- point)		O - Operational	
LRBB (Bucuresti ACC/APP)	UKOO (ODESA ACC)	ATS-R2		Landline (Point-to- point)		O - Operational	

Romania

Last updated on: 20/03/2018

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LRBB (Bucuresti ACC/APP)	UKOO (ODESA ACC)	Other Telephony Interfaces		Satellite		O - Operational	2wCB
LRCK (Constanta APP)	LBWN (Varna APP/TWR)	ATM-VoIP (Telephone)		Ground ATM IP Network		O - Operational	MFC+data/2Mbps

Serbia

Last updated on: 03/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LYBA (BEOGRAD ATCC)	LAAA (Tirana ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LAAA (Tirana ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LYBA (BEOGRAD ATCC)	LAAA (Tirana ACC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LBSF (Sofia ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LBSF (Sofia ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LBSF (Sofia ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LYBA (BEOGRAD ATCC)	LDZO (Zagreb ACC/APP)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Serbia

Last updated on: 03/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LYBA (BEOGRAD ATCC)	LHCC (Budapest ACC R6)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LIBB (Brindisi ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LYBA (BEOGRAD ATCC)	LQSB (BHACC / ATCU II / ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LQSB (BHACC / ATCU II / ACC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LQSB (BHACC / ATCU I / ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LQSB (BHACC / ATCU I / ACC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LRBB (Bucuresti ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Serbia

Last updated on: 03/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LYBA (BEOGRAD ATCC)	LRBB (Bucuresti ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LRBB (Bucuresti ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYBA (BEOGRAD ATCC)	LWSK (Skopje ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LYBA (BEOGRAD ATCC)	LWSK (Skopje ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LYBA (BEOGRAD ATCC)	LWSK (Skopje ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	P - Planned	
LYPG (PODGORICA)	LAAA (Tirana ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYPG (PODGORICA)	LDDU (Dubrovnik TWR/APP)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LYPG (PODGORICA)	LDZO (Zagreb ACC/APP)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LYPG (PODGORICA)	LQSA (BHACC / JPAKL Sarajevo)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Serbia

Last updated on: 03/09/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LYPG (PODGORICA)	LQSB (BHACC / ATCU I / ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LYTV (TIVAT)	LDDU (Dubrovnik TWR/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	P - Planned	transit connection via Podgorica

Slovak Republic

Last updated on: 04/04/2019

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LZBB (Bratislava)	EPKK (Krakow)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LZBB (Bratislava)	EPWW (Warszawa ACC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LZBB (Bratislava)	EPWW (Warszawa ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LZBB (Bratislava)	LHCC (Budapest ACC R6)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LZBB (Bratislava)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LZBB (Bratislava)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LZBB (Bratislava)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)		O - Operational	Request of HCL to keep one landline
LZBB (Bratislava)	LKAA (Praha ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Slovak Republic

Last updated on: 04/04/2019

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LZBB (Bratislava)	LKAA (Praha ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	It is to Brno APP/TWR but Brno not visible as centre
LZBB (Bratislava)	LKAA (Praha ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LZBB (Bratislava)	LOVV (Vienna ACC-Center)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LZBB (Bratislava)	LOVV (Vienna ACC-Center)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LZBB (Bratislava)	LOVV (Vienna ACC-Center)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LZBB (Bratislava)	UKLL (L'VIV ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LZIB (Bratislava Stefanik)	LHCC (Budapest ACC R6)	ATS-QSIG		Landline (Point-to-point)	Digital E1	I - Implemented	
LZIB (Bratislava Stefanik)	LOWW (Wien/Schwechat-Airport-LOWW)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	

Slovak Republic

Last updated on: 04/04/2019

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LZIB (Bratislava Stefanik)	LOWW (Wien/Schwechat-Airport-LOWW)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LZKZ (Kosice)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Slovenia

Last updated on: 11/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LJLJ (Ljubljana ACC)	LDZO (Zagreb ACC/APP)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LJLJ (Ljubljana ACC)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
LJLJ (Ljubljana ACC)	LDZO (Zagreb ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	Connection via multiplexer LOVV
LJLJ (Ljubljana ACC)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	Time slot via multiplexer LVOV
LJLJ (Ljubljana ACC)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	Time slot via multiplexer LDZO
LJLJ (Ljubljana ACC)	LIPP (Padova ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	
LJLJ (Ljubljana ACC)	LOVV (Vienna ACC-Center)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	
LJLJ (Ljubljana ACC)	LOVV (Vienna ACC-Center)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Slovenia

Last updated on: 11/09/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LJLJ (Ljubljana ACC)	LOVV (Vienna ACC-Center)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	Connection via multiplexer LDZO
LJLJ (Ljubljana ACC)	LOVV (Vienna ACC-Center)	ATS-R2		Landline (Point-to-point)		O - Operational	
LJPZ (Portoroz Airport)	LDPL (Pula TWR/APP)	ATS-R2		Landline (Point-to-point)		O - Operational	
LJPZ (Portoroz Airport)	LIPQ (Trieste/Ronchi dei Legionari)	LB		Landline (Point-to-point)		O - Operational	

Spain

Last updated on: 10/06/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
GCCC (Canarias en Route ACC)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
GCCC (Canarias en Route ACC)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
GCCC (Canarias en Route ACC)	GMAC (Agadir ACC)	ATS-N5		Satellite	Digital	O - Operational	Link over CAFSAT network
GCCC (Canarias en Route ACC)	GMAC (Agadir ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
GCCC (Canarias en Route ACC)	GMMM (Casablanca ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
GCCC (Canarias en Route ACC)	GMMM (Casablanca ACC)	ATS-N5		Satellite	Digital	O - Operational	Link over CAFSAT network
GCCC (Canarias en Route ACC)	GOOO (Dakar ACC)	Other Telephony Interfaces		Satellite	Digital	O - Operational	CB protocol over CAFSAT network

Spain

Last updated on: 10/06/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
GCCC (Canarias en Route ACC)	GQNN (Nouakchott)	Other Telephony Interfaces		Satellite	Digital	O - Operational	CB protocol over CAFSAT network
GCCC (Canarias en Route ACC)	GQPP (Nouadhibou TWR)	Other Telephony Interfaces		Satellite	Digital	O - Operational	CB protocol over AFISNET network
GCCC (Canarias en Route ACC)	GVSC (Sal OCEANIC ACC)	ATS-N5		Satellite	Digital	O - Operational	Link over CAFSAT network
GCCC (Canarias en Route ACC)	LPPC (Lisboa ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
GCCC (Canarias en Route ACC)	LPPO (Santa Maria Oceanic OAC)	Other Telephony Interfaces		Satellite		O - Operational	CB to 6 wires E&M over CAFSAT network
GCCC (Canarias en Route ACC)	LPPO (Santa Maria Oceanic OAC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	P - Planned	
LEBL (Barcelona Prat - Josep Tarradellas TWR)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)		Ground ATM IP Network	PENS	O - Operational	ATS-R2 link and VCX Gateway over NewPENS

Spain

Last updated on: 10/06/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LECB (Barcelona en Route ACC)	DAAA (Alger ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	TELCO leased line
LECB (Barcelona en Route ACC)	DAAA (Alger ACC)	ATS-R2		Landline (Point-to-point)		O - Operational	TELCO leased line
LECB (Barcelona en Route ACC)	DAAA (Alger ACC)	Other Telephony Interfaces		Public Network		O - Operational	
LECB (Barcelona en Route ACC)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECB (Barcelona en Route ACC)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECB (Barcelona TMA)	LFBB (Bordeaux ACC (CRNA SO))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM (BT)
LECB (Barcelona en Route ACC)	LFBB (Bordeaux ACC (CRNA SO))	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	Link over French-Spanish MIL networks

Spain

Last updated on: 10/06/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LECB (Barcelona en Route ACC)	LFBB (Bordeaux ACC (CRNA SO))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB
LECB (Barcelona en Route ACC)	LFBB (Bordeaux ACC (CRNA SO))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM
LECB (Barcelona TMA)	LFBB (Bordeaux ACC (CRNA SO))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB (ORANGE)
LECB (Barcelona TMA)	LFBO (Toulouse-Blagnac)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM and transit in LFBB
LECB (Barcelona TMA)	LFBO (Toulouse-Blagnac)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB and transit in LFBB
LECB (Barcelona en Route ACC)	LFMM (Marseille ACC (CRNA SE))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM
LECB (Barcelona en Route ACC)	LFMM (Marseille ACC (CRNA SE))	ATS-R2		Landline (Point-to- point)	Digital E1	O - Operational	Link over French- Spanish MIL networks

Spain

Last updated on: 10/06/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LECB (Barcelona TMA)	LFMM (Marseille ACC (CRNA SE))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB (ORANGE)
LECB (Barcelona en Route ACC)	LFMM (Marseille ACC (CRNA SE))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB
LECB (Barcelona TMA)	LFMM (Marseille ACC (CRNA SE))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM (BT)
LECB (Barcelona TMA)	LFMT (Montpellier)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM (BT)
LECB (Barcelona TMA)	LFMT (Montpellier)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB (ORANGE)
LECG (Santiago APP)	LPPC (Lisboa ACC)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	
LECG (Santiago APP)	LPPR (Porto Airport)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	Transit ATSSIP - ATSR2 in LPPC VCS
LECM (Madrid en Route ACC)	EGGX (Shanwick OAC)	RFC SIP		Ground ATM IP Network	PENS	O - Operational	NewPENS

Spain

Last updated on: 10/06/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LECM (Madrid en Route ACC)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	ATS-R2 link and VCX Gw over NewPENS
LECM (Madrid en Route ACC)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	ATS-R2 link and VCX Gw over NewPENS
LECM (Madrid en Route ACC)	LFBB (Bordeaux ACC (CRNA SO))	ATS-R2		Landline (Point-to-point)		O - Operational	Link over French-Spanish MIL networks
LECM (Madrid en Route ACC)	LFBB (Bordeaux ACC (CRNA SO))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB
LECM (Madrid en Route ACC)	LFBB (Bordeaux ACC (CRNA SO))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM
LECM (Madrid en Route ACC)	LFBP (Pau - Pyrénées)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM and transit in LFBB
LECM (Madrid en Route ACC)	LFBP (Pau - Pyrénées)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB and transit in LFBB

Spain

Last updated on: 10/06/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LECM (Madrid en Route ACC)	LFBZ (Biarritz)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM and transit in LFBB
LECM (Madrid en Route ACC)	LFBZ (Biarritz)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB and transit in LFBB
LECM (Madrid en Route ACC)	LFMM (Marseille ACC (CRNA SE))	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	Link over French - Spanish MIL network
LECM (Madrid en Route ACC)	LFRR (Brest ACC (CRNA O))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB
LECM (Madrid en Route ACC)	LFRR (Brest ACC (CRNA O))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM
LECM (Madrid en Route ACC)	LPPC (Lisboa ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
LECM (Madrid en Route ACC)	LPPO (Santa Maria Oceanic OAC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	

Spain

Last updated on: 10/06/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LECM (Madrid en Route ACC)	LPPR (Porto Airport)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	Transit ATSSIP to ATSR2 in LPPC VCS
LECP (Palma Mallorca TMA/en Route ACC)	EUCH (EUROCONTROL NM)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECP (Palma Mallorca TMA/en Route ACC)	EUCH (EUROCONTROL NM)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECP (Palma Mallorca TMA/en Route ACC)	LFMM (Marseille ACC (CRNA SE))	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB
LECP (Palma Mallorca TMA/en Route ACC)	LFMM (Marseille ACC (CRNA SE))	ATS-R2		Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM
LECS (Sevilla en Route ACC)	DAAA (Alger ACC)	Other Telephony Interfaces		Public Network		O - Operational	
LECS (Sevilla en Route ACC)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	ATS-R2 link and VCX Gateway over NewPENS

Spain

Last updated on: 10/06/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LECS (Sevilla en Route ACC)	EUCH (EUROCONTROL NM)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECS (Sevilla en Route ACC)	GMAC (Agadir ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
LECS (Sevilla en Route ACC)	GMMM (Casablanca ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
LECS (Sevilla en Route ACC)	LPFR (Faro Airport)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	Transit ATSSIP to ATSR2 in LPPC VCS
LECS (Sevilla en Route ACC)	LPPC (Lisboa ACC)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	PENS	O - Operational	
LESO (San Sebastián TWR)	LFBZ (Biarritz)	Other Telephony Interfaces		Radio		O - Operational	CB to 4w E&M Radio link
LESO (San Sebastián TWR)	LFBZ (Biarritz)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECB - LFMM

Spain

Last updated on: 10/06/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LESO (San Sebastián TWR)	LFBZ (Biarritz)	ATM-VoIP (Telephone)	ED-137B	Ground ATM IP Network	Other	O - Operational	ETH-link LECM - LFBB

Sweden

Last updated on: 13/05/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
ESGG (Landvetter TWR/APP)	EKDK (Copenhagen ACC/APP/TWR/AT WR)	ATS-R2		Landline (Point-to-point)		O - Operational	
ESMM (Malmö ATCC)	EDUU (Karlsruhe UAC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	Via Nordic Ring
ESMM (Malmö ATCC)	EDWW (Bremen ACC)	ATS-R2		Ground ATM IP Network		O - Operational	Via Nordic Ring
ESMM (Malmö ATCC)	EETT (Tallinn ACC)	Other Telephony Interfaces		Landline (Point-to-point)		O - Operational	
ESMM (Malmö ATCC)	EETT (Tallinn ACC)	ATM-VoIP (Telephone)	ED-137C	Ground ATM IP Network	PENS	O - Operational	
ESMM (Malmö ATCC)	EKDK (Copenhagen ACC/APP/TWR/AT WR)	ATS-R2		Ground ATM IP Network		O - Operational	Via Nordic Ring
ESMM (Malmö ATCC)	ENOS (Oslo ACC)	ATS-R2		Ground ATM IP Network		O - Operational	Via Nordic Ring
ESMM (Malmö ATCC)	EPGD (Gdansk)	ATS-R2		Ground ATM IP Network		O - Operational	
ESMM (Malmö ATCC)	EPWW (Warszawa ACC)	ATS-R2		Ground ATM IP Network		O - Operational	

Sweden

Last updated on: 13/05/2025

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
ESMM (Malmö ATCC)	EVRR (Riga ACC)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	NewPENS voIP VPN & MFCoverIP gateway
ESOS (Stockholm ATCC)	EETT (Tallinn ACC)	Other Telephony Interfaces		Landline (Point-to- point)		O - Operational	
ESOS (Stockholm ATCC)	EETT (Tallinn ACC)	ATM-VoIP (Telephone)	ED-137C	Ground ATM IP Network	PENS	O - Operational	
ESOS (Stockholm ATCC)	ENBD (Bodo ACC)	ATS-R2		Ground ATM IP Network		O - Operational	Via Nordic Ring
ESOS (Stockholm ATCC)	ENOS (Oslo ACC)	ATS-R2		Ground ATM IP Network		O - Operational	Via Nordic Ring
ESOS (Stockholm ATCC)	EVRR (Riga ACC)	Other Telephony Interfaces		Ground ATM IP Network		O - Operational	

Switzerland

Last updated on: 25/01/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LSAG (Geneva ACC)	EDUU (Karlsruhe UAC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	1 Line
LSAG (Geneva ACC)	LFEE (Reims ACC (CRNA E))	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	4 Lines
LSAG (Geneva ACC)	LFFF (Paris ACC (CRNA N))	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	6 Lines
LSAG (Geneva ACC)	LFLB (Chambery)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	2 Lines
LSAG (Geneva ACC)	LFLI (LYON Saint Exupery)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	4 Lines
LSAG (Geneva ACC)	LFMM (Marseille ACC (CRNA SE))	ATS-R2		Ground ATM IP Network	Other	O - Operational	6 Lines
LSAG (Geneva ACC)	LFSB (Bale-Mulhouse)	ATS-R2		Landline (Point-to-point)	MPLS	O - Operational	3 Lines
LSAG (Geneva ACC)	LIMM (Milan ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	6 Lines
LSAZ (Zurich ACC)	EDGG (Langen ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3 Lines

Switzerland

Last updated on: 25/01/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
LSAZ (Zurich ACC)	EDMM (Muenchen ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	3 Lines
LSAZ (Zurich ACC)	EDUU (Karlsruhe UAC)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	1 Lines
LSAZ (Zurich ACC)	LFEE (Reims ACC (CRNA E))	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	5 Lines
LSAZ (Zurich ACC)	LFSB (Bale-Mulhouse)	ATS-R2		Landline (Point-to-point)	MPLS	O - Operational	3 Lines
LSAZ (Zurich ACC)	LIMM (Milan ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	5 Lines
LSAZ (Zurich ACC)	LIPP (Padova ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	2 Lines
LSAZ (Zurich ACC)	LOVV (Vienna ACC-Center)	ATS-QSIG		Landline (Point-to-point)	Digital E1	O - Operational	1 Line

Ukraine

Last updated on: 20/11/2020

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
UKBB (KYIV ACC)	LUKK (Chisinau)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
UKBB (KYIV ACC)	UMMV (MINSK ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
UKLL (L'VIV ACC)	EPWW (Warszawa ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
UKLL (L'VIV ACC)	LHCC (Budapest ACC R6)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
UKLL (L'VIV ACC)	LRBB (Bucuresti ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
UKLL (L'VIV ACC)	LUKK (Chisinau)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
UKLL (L'VIV ACC)	LZBB (Bratislava)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
UKOO (ODESA ACC)	LBSF (Sofia ACC)	Other Telephony Interfaces		Ground ATM IP Network		O - Operational	Cisco router 2 FXS ports, VoIP
UKOO (ODESA ACC)	LRBB (Bucuresti ACC/APP)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

Ukraine

Last updated on: 20/11/2020

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
UKOO (ODESA ACC)	LTAC (Ankara ACC)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
UKOO (ODESA ACC)	LUKK (Chisinau)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	

United Kingdom

Last updated on: 18/04/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EGGX (Shanwick OAC)	BIRD (Reykjavik ACC/APP)	RFC SIP		Ground ATM IP Network	PENS	O - Operational	NewPENS
EGGX (Shanwick OAC)	CZQX (ATC GANDER)	RFC SIP		Ground ATM IP Network	PENS	O - Operational	NewPENS
EGGX (Shanwick OAC)	EISN (Shannon ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EGGX (Shanwick OAC)	LECM (Madrid en Route ACC)	RFC SIP		Ground ATM IP Network	PENS	O - Operational	NewPENS
EGGX (Shanwick OAC)	LPPO (Santa Maria Oceanic OAC)	RFC SIP		Ground ATM IP Network	PENS	O - Operational	NewPENS
EGPX (Prestwick ACC)	BIRD (Reykjavik ACC/APP)	RFC SIP		Ground ATM IP Network	PENS	O - Operational	
EGPX (Prestwick ACC)	EDYY (EUROCONTROL Maastricht UAC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EGPX (Prestwick ACC)	EDYY (EUROCONTROL Maastricht UAC)	ATM-VoIP (Telephone)		Ground ATM IP Network		P - Planned	NewPENS

United Kingdom

Last updated on: 18/04/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EGPX (Prestwick ACC)	EIDW (Dublin ACC/APP/TWR)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EGPX (Prestwick ACC)	EISN (Shannon ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EGPX (Prestwick ACC)	EKDK (Copenhagen ACC/APP/TWR/AT WR)	RFC SIP		Ground ATM IP Network	PENS	O - Operational	NewPENS
EGPX (Prestwick ACC)	ENSV (Stavanger ACC)	RFC SIP		Ground ATM IP Network	PENS	P - Planned	NewPENS
EGPX (Prestwick ACC)	ENSV (Stavanger ACC)	LB		Landline (Point-to- point)		O - Operational	
EGTT (Swanwick Area Control & LJAO (Military))	EBBR (Brussels_CIV)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EGTT (Swanwick Area Control & LJAO (Military))	EDYY (EUROCONTROL Maastricht UAC)	ATM-VoIP (Telephone)		Ground ATM IP Network	PENS	P - Planned	NewPENS

United Kingdom

Last updated on: 18/04/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EGTT (Swanwick Area Control & LJAO (Military))	EDYY (EUROCONTROL Maastricht UAC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EGTT (Swanwick Area Control & LJAO (Military))	EHAA (Amsterdam ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EGTT (Swanwick Area Control & LJAO (Military))	EHML (Nieuw Milligen (Military))	Other Telephony Interfaces		Ground ATM IP Network	Other	O - Operational	direct
EGTT (Swanwick Area Control & LJAO (Military))	EIDW (Dublin ACC/APP/TWR)	ATS-R2		Landline (Point-to-point)	Digital E1	O - Operational	
EGTT (Swanwick Area Control & LJAO (Military))	EISN (Shannon ACC)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EGTT (Swanwick Area Control & LJAO (Military))	EKDK (Copenhagen ACC/APP/TWR/AT WR)	RFC SIP		Ground ATM IP Network	PENS	P - Planned	PENS

United Kingdom

Last updated on: 18/04/2024

From	To	Voice	Version	Circuit Type	Network	Status	Remarks
EGTT (Swanwick Area Control & LJAO (Military))	EKDK (Copenhagen ACC/APP/TWR/ATWR)	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EGTT (Swanwick Area Control & LJAO (Military))	EUCH (EUROCONTROL NM)	ATS-R2		Ground ATM IP Network	PENS	O - Operational	
EGTT (Swanwick Area Control & LJAO (Military))	LFEE (Reims ACC (CRNA E))	ATS-R2		Ground ATM IP Network	Other	O - Operational	being upgraded to 4 connection
EGTT (Swanwick Area Control & LJAO (Military))	LFFF (Paris ACC (CRNA N))	ATS-R2		Landline (Point-to-point)		O - Operational	
EGTT (Swanwick Area Control & LJAO (Military))	LFRR (Brest ACC (CRNA O))	ATS-R2		Ground ATM IP Network	Other	O - Operational	
EGTT (Swanwick Area Control & LJAO (Military))	LFXO (CDC Tours/Cinq-Mars La Pile)	Other Telephony Interfaces		Ground ATM IP Network	Other	O - Operational	direct circuit