

INTERNATIONAL CIVIL AVIATION ORGANISATION



EUROPEAN AIR NAVIGATION PLAN

Volume II, PART III – CNS

**SUPPLEMENT**

**TABLE AFS-3**

**ATM GROUND VOICE NETWORK DATABASE (AGVN)**

Issued by EUROCONTROL – October 2021

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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.

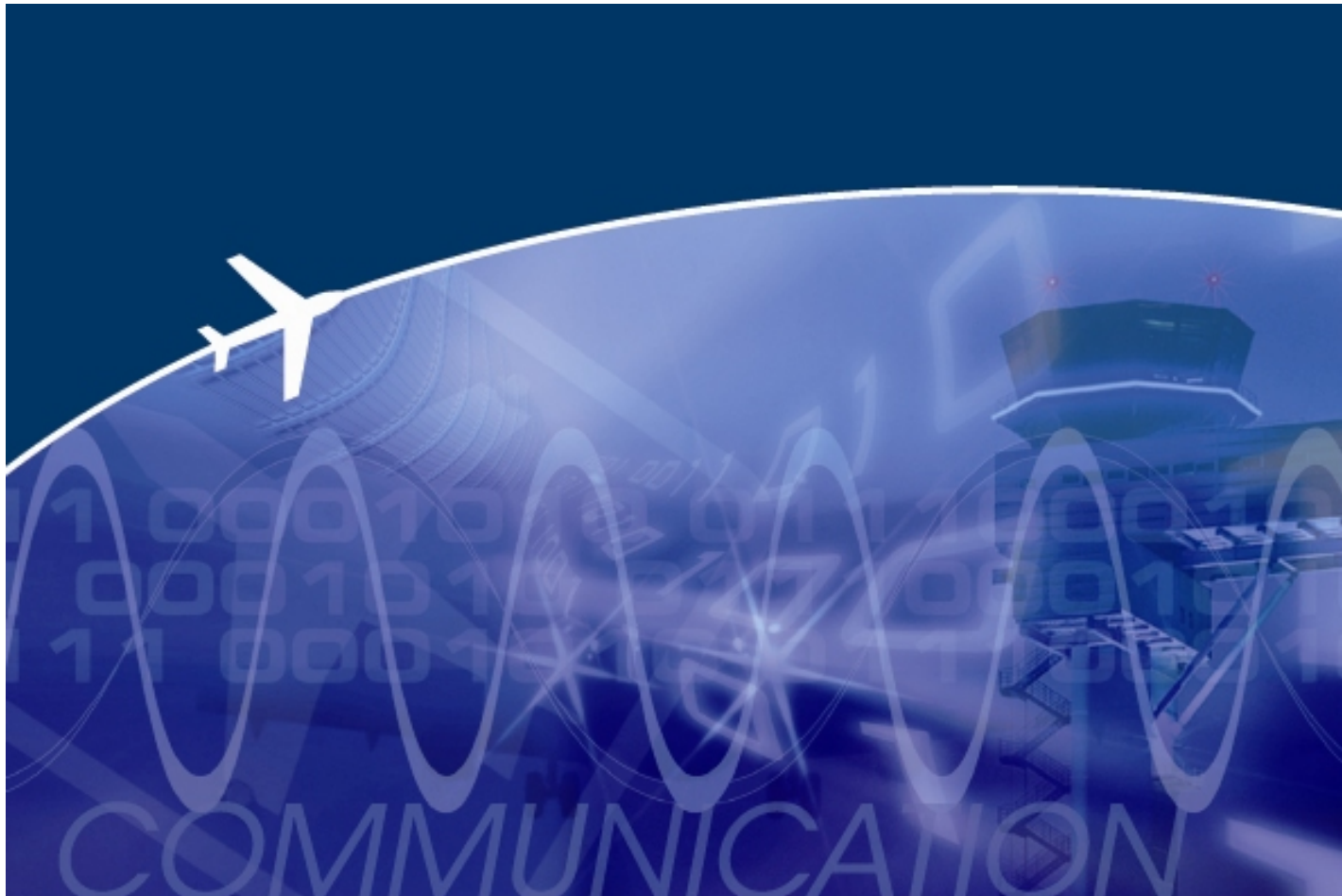
1.3 The above information is collected in the frame of the EUROCONTROL AGVN database and regularly updated by States.

## 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 Connectivity Database Report

11/10/2021



EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				Austria	Last Update : 18/03/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LOVV	EDMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOVV	EDUU	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOVV	EUCH	N - Network	ATS - R2 (MFC)	O - Operational	connection to Brussels
LOVV	LDZO	M - Multiplexer	ATS - QSIG	O - Operational	
LOVV	LDZO	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOVV	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOVV	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOVV	LIPP	L - Landline	ATS - R2 (MFC)	O - Operational	
LOVV	LJLJ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOVV	LJLJ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOVV	LJLJ	M - Multiplexer	ATS - QSIG	O - Operational	
LOVV	LJLJ	L - Landline	ATS - R2 (MFC)	O - Operational	
LOVV	LKAA	M - Multiplexer	ATS - QSIG	O - Operational	
LOVV	LKAA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOVV	LSAZ	M - Multiplexer	ATS - QSIG	O - Operational	
LOVV	LZBB	M -	ATS - R2	O - Operational	

International ATS Direct Speech Circuits of				Austria	Last Update : 18/03/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
		Multiplexer	(MFC)		
LOVV	LZBB	M - Multiplexer	ATS - QSIG	O - Operational	
LOVV	LZBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOWG	LDZO	L - Landline	ATS - R2 (MFC)	O - Operational	
LOWK	LJLJ	L - Landline	ATS - R2 (MFC)	O - Operational	
LOWL	LKAA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOWL	LKAA	M - Multiplexer	ATS - QSIG	O - Operational	
LOWS	EDMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOWW	LHCC	M - Multiplexer	ATS - QSIG	O - Operational	
LOWW	LHCC	L - Landline	ATS - R2 (MFC)	O - Operational	
LOWW	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LOWW	LZIB	M - Multiplexer	ATS - QSIG	O - Operational	
LOWW	LZIB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	

International ATS Direct Speech Circuits of				Belgium	Last Update : 24/03/2020
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EBBR	EDDL	L - Landline	ATS - R2 (MFC)	O - Operational	
EBBR	EHAA	L - Landline	ATS - R2 (MFC)	O - Operational	
EBBR	EHBK	L - Landline	ATS - R2 (MFC)	O - Operational	
EBBR	EHML	L - Landline	ATS - R2 (MFC)	O - Operational	
EBBR	ELLX	L - Landline	ATS - R2 (MFC)	O - Operational	
EBBR	LFEE	L - Landline	ATS - R2 (MFC)	O - Operational	
EBBR	LFFF	L - Landline	ATS - R2 (MFC)	O - Operational	
EBBR	LFQQ	L - Landline	ATS - R2 (MFC)	O - Operational	
EBBR	Vari	L - Landline	ATS - R2 (MFC)	O - Operational	

International ATS Direct Speech Circuits of				Bosnia and Herzegovina	Last Update : 04/10/2019
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LQMO	LDZO	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LQSB	LDDU	M - Multiplexer	ATS - R2 (MFC)	O - Operational	xcon LDZO
LQSB	LDZO	M - Multiplexer	ATS - R2 (MFC)	O - Operational	xcon in Belgrade
LQSB	LDZO	M - Multiplexer	ATS - QSIG E1	O - Operational	
LQSB	LDZO	M - Multiplexer	ATS - QSIG	O - Operational	
LQSB	LDZO	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LQSB	LDZO	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LQSB	LYBA	M - Multiplexer	ATS - QSIG	O - Operational	
LQSB	LYBA	M - Multiplexer	ATS - QSIG	O - Operational	direct
LQSB	LYBA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LQSB	LYBA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	xcon LDZO
LQSB	LYPG	M - Multiplexer	ATS - R2 (MFC)	O - Operational	



EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				Bulgaria	Last Update : 29/09/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LBSF	EUCH	N - Network	ATM - VoIP	O - Operational	NM over NewPENS
LBSF	LGGG	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LBSF	LGTS	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LBSF	LRBB	S - Satellite	Other (Detail in remarks)	O - Operational	2 w CB
LBSF	LRBB	N - Network	ATS - R2 (MFC)	O - Operational	
LBSF	LRBB	N - Network	ATM - VoIP	O - Operational	
LBSF	LRCK	S - Satellite	Other (Detail in remarks)	O - Operational	
LBSF	LTAC	S - Satellite	Other (Detail in remarks)	O - Operational	2W CB
LBSF	LTAC	L - Landline	ATS - R2 (MFC)	O - Operational	
LBSF	LTBA	S - Satellite	Other (Detail in remarks)	O - Operational	2W CB
LBSF	LTBA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LBSF	LWSK	L - Landline	Other (Detail in remarks)	O - Operational	2W CB from Routers
LBSF	LWSK	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LBSF	LYBA	L - Landline	ATS - R2 (MFC)	O - Operational	
LBSF	LYBA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LBSF	LYBA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LBSF	UKOO	S - Satellite	Other (Detail	O - Operational	

EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				Bulgaria	Last Update : 29/09/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
			in remarks)		

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International ATS Direct Speech Circuits of				Croatia	Last Update : 13/03/2017
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LDDU	LQSB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LDDU	LYPG	M - Multiplexer	ATS - QSIG	O - Operational	
LDDU	LYTV	L - Landline	Other (Detail in remarks)	O - Operational	E&M
LDPL	LJPZ	L - Landline	ATS - R2 (MFC)	O - Operational	
LDZO	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LDZO	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LDZO	LIBB	L - Landline	ATS - R2 (MFC)	O - Operational	
LDZO	LIPP	L - Landline	ATS - R2 (MFC)	O - Operational	
LDZO	LIPP	L - Landline	ATS - R2 (MFC)	O - Operational	
LDZO	LJLJ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LDZO	LJLJ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LDZO	LJLJ	M - Multiplexer	ATS - QSIG	O - Operational	
LDZO	LOVV	M - Multiplexer	ATS - QSIG	O - Operational	
LDZO	LOVV	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LDZO	LOWG	L - Landline	ATS - R2 (MFC)	O - Operational	
LDZO	LQMO	M -	ATS - R2	O - Operational	Leased analogue line

EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				Croatia	Last Update : 13/03/2017
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
		Multiplexer	(MFC)		
LDZO	LQSB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LDZO	LQSB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	leased analogue line
LDZO	LQSB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LDZO	LYPG	L - Landline	LB	O - Operational	E&M - LB

International ATS Direct Speech Circuits of				Denmark	Last Update : 17/04/2018
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
BGGL	BIRD	L - Landline	ATS - No.5	O - Operational	
BGGL	CZEG	L - Landline	ATS - No.5	O - Operational	
BGGL	CZQX	L - Landline	ATS - No.5	O - Operational	
EKDK	EDDW	N - Network	ATS - R2 (MFC)	O - Operational	
EKDK	EDUU	N - Network	ATS - R2 (MFC)	O - Operational	
EKDK	EDYY	N - Network	ATS - R2 (MFC)	O - Operational	
EKDK	EGPX	L - Landline	ATS - R2 (MFC)	O - Operational	
EKDK	EGTT	L - Landline	ATS - R2 (MFC)	O - Operational	
EKDK	EHAA	N - Network	ATS - R2 (MFC)	O - Operational	
EKDK	ENOS	N - Network	ATS - R2 (MFC)	O - Operational	
EKDK	ENSV	N - Network	ATS - R2 (MFC)	O - Operational	
EKDK	ESGG	L - Landline	ATS - R2 (MFC)	O - Operational	Via MUX in ESMM
EKDK	ESMM	N - Network	ATS - R2 (MFC)	O - Operational	

International ATS Direct Speech Circuits of				EUROCONTROL MUAC	Last Update : 07/12/2011
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EDYY	EBBD	L - Landline	ATS - QSIG	O - Operational	
EDYY	EBBR	L - Landline	ATS - R2 (MFC)	O - Operational	
EDYY	EBBR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	EBBR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	EDDW	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	EDDZ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	EDLL	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	EDMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	EDUU	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	EGTT	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	EHAA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	EBBK	L - Landline	ATS - R2 (MFC)	O - Operational	
EDYY	EHML	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	EKDK	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	LFEE	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY	LFFF	L - Landline	ATS - R2 (MFC)	O - Operational	

EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				EUROCONTROL MUAC	Last Update : 07/12/2011
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EDYY	LFXD	L - Landline	LB	O - Operational	
EDYY	LFYA	L - Landline	LB	O - Operational	
EDYY		M - Multiplexer	ATS - R2 (MFC)	P - Planned	
EDYY		M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EDYY		M - Multiplexer	ATS - R2 (MFC)	P - Planned	

International ATS Direct Speech Circuits of				EUROCONTROL NM	Last Update : 14/05/2018
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EUCH	EBBR	L - Landline	ATS - R2 (MFC)	O - Operational	
EUCH	EDLL	N - Network	ATM - VoIP	O - Operational	
EUCH	LFBB	M - Multiplexer	ATM - VoIP	O - Operational	
EUCH	LFFF	N - Network	ATM - VoIP	O - Operational	
EUCH	LGGG	N - Network	ATM - VoIP	O - Operational	
EUCH	LIRR	N - Network	Other (Detail in remarks)	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.
EUCH	LOVV	N - Network	ATM - VoIP	O - Operational	ATS-MFC Converters used at both end of the circuit, The VCS are connected with 'MFC-R2" links to those converters
EUCH	LPPT	N - Network	ATM - VoIP	O - Operational	
EUCH	LTBA	N - Network	Other (Detail in remarks)	O - Operational	MFC/R2 connection to converters. Those converters digitalise the MFC R/2 packets and ancapsulate them inside an ip Tunnel overs PENS.



EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				Estonia	Last Update : 12/04/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EETT	EFIN	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Fractional E1 over IP
EETT	EFIN	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Fractional E1 over IP
EETT	EFIN	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Fractional E1 over IP
EETT	ESMM	L - Landline	Other (Detail in remarks)	O - Operational	Hotline
EETT	ESOS	L - Landline	Other (Detail in remarks)	O - Operational	Hotline
EETT	EVR	M - Multiplexer	ATS - QSIG	O - Operational	

EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				Germany	Last Update :
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EDNY	LSAZ	M - Multiplexer	ATS - QSIG	O - Operational	

International ATS Direct Speech Circuits of				Greece	Last Update : 02/03/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LGGG	EUCH	N - Network	ATM - VoIP	O - Operational	
LGGG	HECC	M - Multiplexer	LB	O - Operational	
LGGG	LAAA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LGGG	LBSF	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LGGG	LCCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LGGG	LCCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LGGG	LIBB	L - Landline	ATS - R2 (MFC)	O - Operational	
LGGG	LIBB	L - Landline	ATS - R2 (MFC)	O - Operational	
LGGG	LMMM	N - Network	ATM - VoIP	O - Operational	We use VoIP communication using VoIP to MFC/R2 gateways
LGGG	LTAC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LGGG	LTBA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LGGG	LTBA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LGGG	LTBJ	M - Multiplexer	LB	O - Operational	
LGGG	LWSK	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LGGG	LWSK	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LGKR	LAAA	L - Landline	LB	O - Operational	
LGKR	LIBB	L - Landline	LB	O - Operational	

EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				Greece	Last Update : 02/03/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LGTS	LBSF	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LGTS	LWSK	L - Landline	LB	O - Operational	

International ATS Direct Speech Circuits of				Hungary	Last Update : 30/08/2018
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LHCC	LAAA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3710xx
LHCC	LAAA	M - Multiplexer	ATS - QSIG	O - Operational	3710xx
LHCC	LDZO	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3791xx
LHCC	LDZO	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3791xx
LHCC	LJLJ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	via LVOV 3717xx, 3718xx, 3719xx
LHCC	LJLJ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	via LDZO 3717xx, 3718xx, 3719xx
LHCC	LOWW	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3654xx, 3660xx, 3661xx, 3665xx, 3668xx, 3696xx
LHCC	LOWW	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3654xx, 3660xx, 3661xx, 3665xx, 3668xx, 3696xx
LHCC	LOWW	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3654xx, 3660xx, 3661xx, 3665xx, 3668xx, 3696xx
LHCC	LOWW	L - Landline	ATS - R2 (MFC)	O - Operational	3654xx, 3660xx, 3661xx, 3665xx, 3668xx, 3696xx
LHCC	LOWW	M - Multiplexer	ATS - QSIG	I - Implemented	3490xx, 3491xx, 3492xx to EBBU
LHCC	LRAR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	LRAR, LROP via LRAR 3770xx, 3771xx
LHCC	LRAR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	LRAR, LROP via LRAR 3770xx, 3771xx
LHCC	LRAR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	LRAR, LROP via LRAR 3770xx, 3771xx
LHCC	LRAR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	LRAR, LROP via LRAR 3770xx, 3771xx
LHCC	LRAR	L - Landline	ATS - R2	O - Operational	LRAR, LROP via LRAR 3770xx, 3771xx

EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				Hungary	Last Update : 30/08/2018
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
			(MFC)		
LHCC	LRAR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	LRAR, LROP via LRAR 3770xx, 3771xx
LHCC	LWSK	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3783xx
LHCC	LWSK	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3783xx
LHCC	LYBA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	LYBA, LYBE 3798xx
LHCC	LYBA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	LYBA, LYBE 3798xx
LHCC	LYBA	M - Multiplexer	ATS - QSIG	O - Operational	LYBA, LYBE 3798xx
LHCC	LZBB	L - Landline	ATS - R2 (MFC)	O - Operational	3618xx, 3620xx, 3621xx, 3622xx, 3628xx, 3629xx
LHCC	LZBB	M - Multiplexer	ATS - QSIG	O - Operational	3618xx, 3620xx, 3621xx, 3622xx, 3628xx, 3629xx
LHCC	LZBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3618xx, 3620xx, 3621xx, 3622xx, 3628xx, 3629xx
LHCC	LZBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3618xx, 3620xx, 3621xx, 3622xx, 3628xx, 3629xx
LHCC	LZIB	M - Multiplexer	ATS - QSIG	O - Operational	LZIB 36277x, 36278x
LHCC	LZKZ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	LZKZ 36270x
LHCC	UKLL	M - Multiplexer	ATS - R2 (MFC)	O - Operational	LVOV 3810xx, 3812xx

International ATS Direct Speech Circuits of				Ireland	Last Update : 15/10/2018
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EIDW	EGPX	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EIDW	EGTT	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EINN	EGGX	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EINN	EGPX	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EINN	LFRR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	

International ATS Direct Speech Circuits of				Italy	Last Update : 10/11/2020
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LIBB	LAAA	L - Landline	ATS - R2 (MFC)	O - Operational	
LIBB	LDZO	L - Landline	ATS - R2 (MFC)	O - Operational	
LIBB	LDZO	L - Landline	ATS - R2 (MFC)	O - Operational	
LIBB	LGGG	L - Landline	ATS - R2 (MFC)	O - Operational	
LIBB	LGGG	L - Landline	ATS - R2 (MFC)	O - Operational	
LIBB	LGKR	L - Landline	LB	O - Operational	
LIBB	LYBA	L - Landline	ATS - R2 (MFC)	O - Operational	
LIMM	LFKB	N - Network	ATS - R2 (MFC)	O - Operational	
LIMM	LFMM	N - Network	ATS - R2 (MFC)	O - Operational	
LIMM	LFMN	N - Network	ATS - R2 (MFC)	O - Operational	
LIMM	LSAG	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LIMM	LSAZ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LIMM	LSZA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LIMM	LSZA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LIPP	EDMM	N - Network	ATS - R2 (MFC)	O - Operational	
LIPP	EDUU	N - Network	ATS - R2 (MFC)	O - Operational	



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International ATS Direct Speech Circuits of				Italy	Last Update : 10/11/2020
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LIPP	LDZO	L - Landline	ATS - R2 (MFC)	O - Operational	
LIPP	LDZO	L - Landline	ATS - R2 (MFC)	O - Operational	
LIPP	LJLJ	L - Landline	ATS - R2 (MFC)	O - Operational	
LIPP	LOVV	L - Landline	ATS - R2 (MFC)	O - Operational	
LIPP	LOVV	L - Landline	ATS - R2 (MFC)	O - Operational	
LIPP	LSAZ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LIPP	LSAZ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LIPQ	LJPZ	L - Landline	LB	O - Operational	Connection aimed to APP coordination between Trieste and Portoroz
LIRR	DTTC	L - Landline	Other (Detail in remarks)	O - Operational	PABX-CB
LIRR	DTTC	L - Landline	Other (Detail in remarks)	O - Operational	PABX-CB
LIRR	DTTC	L - Landline	Other (Detail in remarks)	O - Operational	PABX-CB
LIRR	EUCH	N - Network	ATM - VoIP	O - Operational	
LIRR	LFKB	N - Network	ATS - R2 (MFC)	O - Operational	
LIRR	LFKJ	N - Network	ATS - R2 (MFC)	O - Operational	
LIRR	LFKJ	N - Network	ATS - R2 (MFC)	O - Operational	
LIRR	LFMM	N - Network	ATS - R2 (MFC)	O - Operational	
LIRR	LMMM	L - Landline	ATS - R2	O - Operational	

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International ATS Direct Speech Circuits of				Italy	Last Update : 10/11/2020
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
			(MFC)		
LIRR	LMMM	L - Landline	ATS - R2 (MFC)	O - Operational	

EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				Latvia	Last Update : 30/03/2020
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EVRR	EETT	M - Multiplexer	ATS - QSIG	O - Operational	
EVRR	ESMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EVRR	ESOS	N - Network	Other (Detail in remarks)	O - Operational	Dial-up (PSTN)
EVRR	EYVC	M - Multiplexer	ATS - QSIG	O - Operational	
EVRR	ULLI	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EVRR	UMMV	M - Multiplexer	ATS - R2 (MFC)	O - Operational	

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International ATS Direct Speech Circuits of				Lithuania	Last Update : 06/09/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EYVC	EPWW	M - Multiplexer	ATS - QSIG	O - Operational	
EYVC	EVRR	M - Multiplexer	ATS - QSIG	O - Operational	
EYVC	UMKK	M - Multiplexer	ATS - QSIG	O - Operational	
EYVC	UMMV	N - Network	ATM - VoIP	O - Operational	

International ATS Direct Speech Circuits of				North Macedonia	Last Update : 10/03/2017
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LWSK	LAAA	L - Landline	ATS - R2 (MFC)	O - Operational	
LWSK	LBSF	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LWSK	LGGG	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LWSK	LGGG	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LWSK	LGTS	L - Landline	LB	O - Operational	
LWSK	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LWSK	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	

International ATS Direct Speech Circuits of				Norway	Last Update : 26/02/2020
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
ENBD	BIRD	N - Network	ATS - No.5	O - Operational	
ENBD	ESOS	N - Network	ATS - R2 (MFC)	O - Operational	Via Nordic Ring
ENOS	EKDK	N - Network	ATS - R2 (MFC)	O - Operational	Via Nordic Ring
ENOS	ESMM	N - Network	ATS - R2 (MFC)	O - Operational	Via Nordic Ring
ENOS	ESOS	N - Network	ATS - R2 (MFC)	O - Operational	Via Nordic Ring
ENSV	BIRD	N - Network	ATS - No.5	O - Operational	
ENSV	EKDK	N - Network	ATS - R2 (MFC)	O - Operational	Via Nordic Ring

International ATS Direct Speech Circuits of				Poland	Last Update :
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EPGD	ESMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EPWW	EDDW	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EPWW	EDMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EPWW	EDUU	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EPWW	LKAA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EPWW	UKLL	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EPWW	UMKK	M - Multiplexer	ATS - QSIG	O - Operational	
EPWW	UMMV	M - Multiplexer	ATS - R2 (MFC)	O - Operational	

International ATS Direct Speech Circuits of				Portugal	Last Update : 10/03/2020
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LPFR	LECS	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LPPC	EUCH	L - Landline	ATS - R2 (MFC)	O - Operational	
LPPC	GCCC	L - Landline	ATS - R2 (MFC)	O - Operational	
LPPC	LECM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LPPC	LECM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LPPC	LECM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LPPC	LECM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LPPC	LECM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LPPC	LECS	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LPPC	LECS	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LPPO	EGGX	M - Multiplexer	Other (Detail in remarks)	O - Operational	E&M
LPPO	GCCC	S - Satellite	Other (Detail in remarks)	O - Operational	E&M
LPPO	LECM	N - Network	Other (Detail in remarks)	O - Operational	E&M
LPPR	LECG	L - Landline	ATS - R2 (MFC)	O - Operational	



International ATS Direct Speech Circuits of				Republic of Moldova	Last Update : 17/03/2017
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LUKK	LRBB	N - Network	ATS - R2 (MFC)	O - Operational	
LUKK	UKBB	N - Network	ATS - R2 (MFC)	O - Operational	
LUKK	UKLL	N - Network	ATS - R2 (MFC)	O - Operational	
LUKK	UKOO	N - Network	ATS - R2 (MFC)	O - Operational	

International ATS Direct Speech Circuits of				Romania	Last Update : 20/03/2018
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LRAR	LHCC	N - Network	ATS - R2 (MFC)	O - Operational	
LRBB	LBSF	N - Network	ATS - R2 (MFC)	O - Operational	
LRBB	LBSF	S - Satellite	Other (Detail in remarks)	O - Operational	2wCB
LRBB	LBWN	S - Satellite	Other (Detail in remarks)	I - Implemented	2wCB
LRBB	LYBA	N - Network	ATS - R2 (MFC)	O - Operational	2MFC+data/2Mbps
LRBB	UKLL	L - Landline	ATS - R2 (MFC)	O - Operational	
LRBB	UKOO	S - Satellite	Other (Detail in remarks)	O - Operational	2wCB
LRBB	UKOO	L - Landline	ATS - R2 (MFC)	O - Operational	
LRCK	LBWN	N - Network	ATM - VoIP	O - Operational	MFC+data/2Mbps

International ATS Direct Speech Circuits of				Serbia	Last Update : 12/11/2020
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LYBA	LAAA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LAAA	M - Multiplexer	ATS - QSIG	O - Operational	
LYBA	LAAA	L - Landline	ATS - R2 (MFC)	O - Operational	
LYBA	LBSF	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LBSF	L - Landline	ATS - R2 (MFC)	O - Operational	
LYBA	LBSF	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LDZO	M - Multiplexer	ATS - QSIG	O - Operational	
LYBA	LDZO	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LDZO	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LHCC	M - Multiplexer	ATS - QSIG	O - Operational	
LYBA	LIBB	L - Landline	ATS - R2 (MFC)	O - Operational	
LYBA	LQSB	M - Multiplexer	ATS - QSIG	O - Operational	
LYBA	LQSB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LQSB	M -	ATS - QSIG	O - Operational	

International ATS Direct Speech Circuits of				Serbia	Last Update : 12/11/2020
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
		Multiplexer			
LYBA	LQSB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LRBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LRBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LRBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYBA	LWSK	L - Landline	ATS - R2 (MFC)	O - Operational	
LYBA	LWSK	L - Landline	ATS - R2 (MFC)	O - Operational	
LYPG	LAAA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYPG	LDDU	M - Multiplexer	ATS - QSIG	O - Operational	
LYPG	LDZO	M - Multiplexer	ATS - QSIG	O - Operational	
LYPG	LQSA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYPG	LQSB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LYTV	LDDU	M - Multiplexer	ATS - R2 (MFC)	P - Planned	transit connection via Podgorica
LYUZ	LQSA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	

International ATS Direct Speech Circuits of				Slovak Republic	Last Update : 04/04/2019
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LZBB	EPKK	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LZBB	EPWW	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LZBB	EPWW	M - Multiplexer	ATS - QSIG	O - Operational	
LZBB	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LZBB	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LZBB	LHCC	L - Landline	ATS - R2 (MFC)	O - Operational	Request of HCL to keep one landline
LZBB	LHCC	M - Multiplexer	ATS - QSIG	O - Operational	
LZBB	LKAA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	It is to Brno APP/TWR but Brno not visible as centre
LZBB	LKAA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LZBB	LKAA	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LZBB	LOVV	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LZBB	LOVV	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LZBB	LOVV	M - Multiplexer	ATS - QSIG	O - Operational	
LZBB	UKLL	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LZIB	LHCC	M - Multiplexer	ATS - QSIG	I - Implemented	
LZIB	LOWW	M -	ATS - QSIG	O - Operational	

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International ATS Direct Speech Circuits of				Slovak Republic	Last Update : 04/04/2019
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
		Multiplexer			
LZIB	LOWW	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LZKZ	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	

International ATS Direct Speech Circuits of				Slovenia	Last Update : 17/03/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LJLJ	LDZO	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Connection via multiplexer LOVV
LJLJ	LDZO	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LJLJ	LDZO	M - Multiplexer	ATS - QSIG	O - Operational	
LJLJ	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Time slot via multiplexer LVOV
LJLJ	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Time slot via multiplexer LDZO
LJLJ	LIPP	L - Landline	ATS - R2 (MFC)	O - Operational	
LJLJ	LOVV	M - Multiplexer	ATS - QSIG	O - Operational	
LJLJ	LOVV	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Connection via multiplexer LDZO
LJLJ	LOVV	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
LJLJ	LOVV	L - Landline	ATS - R2 (MFC)	O - Operational	
LJPZ	LDPL	L - Landline	ATS - R2 (MFC)	O - Operational	
LJPZ	LIPQ	L - Landline	LB	O - Operational	

International ATS Direct Speech Circuits of				Spain	Last Update : 28/09/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
GCCC	EUCH	N - Network	ATM - VoIP	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
GCCC	EUCH	N - Network	ATM - VoIP	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
GCCC	GMAC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
GCCC	GMAC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
GCCC	GMMM	M - Multiplexer	ATS - No.5	O - Operational	Link over AEFMP TDM network (ONDA - NAV Portugal)
GCCC	GMMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
GCCC	GMMM	L - Landline	ATS - R2 (MFC)	O - Operational	TELCO line
GCCC	GOOO	S - Satellite	Other (Detail in remarks)	O - Operational	CB protocol over CAFSAT network
GCCC	GQNN	S - Satellite	Other (Detail in remarks)	O - Operational	CB protocol over CAFSAT network
GCCC	GQPP	S - Satellite	Other (Detail in remarks)	O - Operational	CB protocol over AFISNET network
GCCC	GVSC	S - Satellite	Other (Detail in remarks)	O - Operational	CB protocol over AFISNET network
GCCC	GVSC	S - Satellite	Other (Detail in remarks)	O - Operational	CB protocol over CAFSAT network
GCCC	LPPC	M - Multiplexer	ATS - No.5	O - Operational	Link over ENAIRE & AEFMP TDM networks
GCCC	LPPC	S - Satellite	ATS - No.5	O - Operational	Link over CAFSAT network
GCCC	LPPC	L - Landline	ATS - R2 (MFC)	O - Operational	TELCO leased line
GCCC	LPPO	S - Satellite	Other (Detail in remarks)	O - Operational	CB to 4w E&M over CAFSAT network



International ATS Direct Speech Circuits of				Spain	Last Update : 28/09/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LEBL	EUCH	N - Network	ATM - VoIP	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECB	DAAA	L - Landline	ATS - R2 (MFC)	O - Operational	TELCO leased line
LECB	DAAA	L - Landline	ATS - R2 (MFC)	O - Operational	TELCO leased line
LECB	EUCH	N - Network	ATM - VoIP	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECB	EUCH	N - Network	ATM - VoIP	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECB	LFBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over French-Spanish MIL networks
LECB	LFBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECB	LFBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECB	LFBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECB	LFBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECB	LFMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over French-Spanish MIL networks
LECB	LFMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECB	LFMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECB	LFMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECB	LFMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECB	LFMT	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network

International ATS Direct Speech Circuits of				Spain	Last Update : 28/09/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LECG	LPPR	L - Landline	ATS - R2 (MFC)	O - Operational	TELCO leased line
LECM	EGGX	N - Network	ATM - VoIP	O - Operational	NewPENS
LECM	EGGX	N - Network	ATM - VoIP	O - Operational	NewPENS
LECM	EUCH	N - Network	ATM - VoIP	O - Operational	ATS-R2 link and VCX Gw over NewPENS
LECM	EUCH	N - Network	ATM - VoIP	O - Operational	ATS-R2 link and VCX Gw over NewPENS
LECM	LFBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over French - Spanish MIL networks
LECM	LFBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECM	LFBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECM	LFBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECM	LFBP	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP and SETINET network
LECM	LFBZ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP and SETNET network
LECM	LFMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over French - Spanish MIL network
LECM	LFRR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECM	LFRR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECM	LFRR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECM	LFRR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over French - Spanish MIL networks
LECM	LPPC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECM	LPPC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network

International ATS Direct Speech Circuits of				Spain	Last Update : 28/09/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LECM	LPPC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECM	LPPC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECM	LPPC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECM	LPPO	S - Satellite	Other (Detail in remarks)	O - Operational	CB landline to 4w E&M satellite
LECP	EUCH	N - Network	ATM - VoIP	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECP	EUCH	N - Network	ATM - VoIP	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECP	LFMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECP	LFMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECP	LFMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECS	DAAA	L - Landline	ATS - R2 (MFC)	O - Operational	TELCO leased line
LECS	EUCH	N - Network	ATM - VoIP	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECS	EUCH	N - Network	ATM - VoIP	O - Operational	ATS-R2 link and VCX Gateway over NewPENS
LECS	GMAC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECS	GMAC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECS	GMMM	L - Landline	ATS - R2 (MFC)	O - Operational	TELCO leased line
LECS	GMMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network

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International ATS Direct Speech Circuits of				Spain	Last Update : 28/09/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LECS	LPFR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECS	LPPC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network
LECS	LPPC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP & NAV P TDM networks
LESO	LFBZ	R - Radio	Other (Detail in remarks)	O - Operational	CB to 4w E&M Radio link
LESO	LFBZ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	Link over AEFMP TDM network and TELCO link

International ATS Direct Speech Circuits of				Sweden	Last Update : 13/09/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
ESGG	EKDK	L - Landline	ATS - R2 (MFC)	O - Operational	
ESMM	EDDW	N - Network	ATS - R2 (MFC)	O - Operational	Via Nordic Ring
ESMM	EDUU	N - Network	ATS - R2 (MFC)	O - Operational	Via Nordic Ring
ESMM	EETT	L - Landline	Other (Detail in remarks)	O - Operational	
ESMM	EKDK	N - Network	ATS - R2 (MFC)	O - Operational	Via Nordic Ring
ESMM	ENOS	N - Network	ATS - R2 (MFC)	O - Operational	Via Nordic Ring
ESMM	EPGD	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
ESMM	EPWW	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
ESMM	EVRR	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
ESOS	EETT	L - Landline	Other (Detail in remarks)	O - Operational	
ESOS	ENBD	N - Network	ATS - R2 (MFC)	O - Operational	Via Nordic Ring
ESOS	ENOS	N - Network	ATS - R2 (MFC)	O - Operational	Via Nordic Ring
ESOS	EVRR	N - Network	Other (Detail in remarks)	O - Operational	

International ATS Direct Speech Circuits of				Switzerland	Last Update : 25/04/2019
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
LSAG	EDUU	M - Multiplexer	ATS - QSIG	O - Operational	1 Line
LSAG	LFEE	M - Multiplexer	ATS - R2 (MFC)	O - Operational	4 Lines
LSAG	LFFF	M - Multiplexer	ATS - R2 (MFC)	O - Operational	6 Lines
LSAG	LFLB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	2 Lines
LSAG	LFLL	M - Multiplexer	ATS - R2 (MFC)	O - Operational	4 Lines
LSAG	LFMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	6 Lines
LSAG	LFSB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	2 Lines
LSAG	LIMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	6 Lines
LSAZ	EDDZ	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3 Lines
LSAZ	EDMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	3 Lines
LSAZ	EDNY	M - Multiplexer	ATS - QSIG	O - Operational	1 Line
LSAZ	EDUU	M - Multiplexer	ATS - QSIG	O - Operational	1 Lines
LSAZ	LFEE	M - Multiplexer	ATS - R2 (MFC)	O - Operational	5 Lines
LSAZ	LFSB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	2 Lines
LSAZ	LIMM	M - Multiplexer	ATS - R2 (MFC)	O - Operational	5 Lines
LSAZ	LIPP	M -	ATS - R2	O - Operational	2 Lines

EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				Switzerland	Last Update : 25/04/2019
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
		Multiplexer	(MFC)		
LSAZ	LOVV	M - Multiplexer	ATS - QSIG	O - Operational	1 Line

International ATS Direct Speech Circuits of				Ukraine	Last Update : 20/11/2020
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
UKBB	LUKK	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
UKBB	UMMV	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
UKLL	EPWW	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
UKLL	LHCC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
UKLL	LRBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
UKLL	LUKK	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
UKLL	LZBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
UKOO	LBSF	N - Network	Other (Detail in remarks)	O - Operational	Cisco router 2 FXS ports, VoIP
UKOO	LRBB	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
UKOO	LTAC	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
UKOO	LUKK	M - Multiplexer	ATS - R2 (MFC)	O - Operational	



International ATS Direct Speech Circuits of				United Kingdom	Last Update : 03/03/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EGGX	BIRD	N - Network	ATM - VoIP	O - Operational	PENS
EGGX	CZQX	N - Network	ATM - VoIP	O - Operational	PENS
EGGX	EINN	N - Network	ATS - R2 (MFC)	O - Operational	
EGGX	LECM	L - Landline	Other (Detail in remarks)	O - Operational	Ring loop
EGGX	LECM	N - Network	ATM - VoIP	O - Operational	PENS
EGGX	LPPO	N - Network	ATM - VoIP	P - Planned	PENS
EGGX	LPPO	L - Landline	Other (Detail in remarks)	O - Operational	direct circuit
EGPX	BIRD	N - Network	ATM - VoIP	O - Operational	
EGPX	EDYY	N - Network	ATS - R2 (MFC)	O - Operational	
EGPX	EIDW	N - Network	ATS - R2 (MFC)	O - Operational	
EGPX	EINN	N - Network	ATS - R2 (MFC)	O - Operational	
EGPX	EKDK	N - Network	ATM - VoIP	P - Planned	PENS
EGPX	EKDK	M - Multiplexer	ATS - R2 (MFC)	O - Operational	
EGPX	ENSV	L - Landline	LB	O - Operational	
EGPX	ENSV	N - Network	ATM - VoIP	P - Planned	PENS
EGTT	EBBR	N - Network	ATS - R2 (MFC)	O - Operational	
EGTT	EHAA	N - Network	ATS - R2 (MFC)	O - Operational	
EGTT	EHML	N - Network	Other (Detail in remarks)	O - Operational	direct
EGTT	EIDW	N - Network	ATS - R2 (MFC)	O - Operational	

## EUROCONTROL AGVN Database Report

International ATS Direct Speech Circuits of				United Kingdom	Last Update : 03/03/2021
Local ATS Unit	Remote ATS Unit	Type of Circuit	Type of Connection	Status of Implementation	Remarks
EGTT	EINN	N - Network	ATS - R2 (MFC)	O - Operational	
EGTT	EKDK	N - Network	ATM - VoIP	P - Planned	PENS
EGTT	EKDK	N - Network	ATS - R2 (MFC)	O - Operational	
EGTT	EUCH	N - Network	ATS - R2 (MFC)	O - Operational	
EGTT	LFEE	L - Landline	ATS - R2 (MFC)	O - Operational	being upgraded to 4 connection
EGTT	LFFF	L - Landline	ATS - R2 (MFC)	O - Operational	
EGTT	LFRR	L - Landline	ATS - R2 (MFC)	O - Operational	
EGTT	LFXO	L - Landline	Other (Detail in remarks)	O - Operational	direct circuit

