

**Tabla CNS 1-C**

**Plan de Circuitos Orales ATS**

**(Parte IV, Vol. II - FASID -  
del ANP CAR/SAM -  
Reunión RAN CAR/SAM/3)**

**Table CNS 1C - ATS SPEECH CIRCUITS PLAN***EXPLANATION OF THE TABLE**Column*

1 and 2 Circuit terminal stations are listed alphabetically by the Terminal I.

3 A – indicates ATS requirement for the establishment of voice communication within 15 seconds.  
D – indicates requirements for instantaneous communications.

4 Type of service specified:  
LTF – landline telephone (landline, cable, UHF, VHF, satellite).  
RTF – radiotelephone.

5 Type of circuits; Direct (DIR) or Switched (SW).  
D – indicates a direct circuit connecting Terminals I and II.  
S – indicates that a direct circuit does not exist and that the connection is established via switching at the switching centre(s) indicated in column 6.  
IDD - International direct dialling by public switch telephone network

*Note 1. – Number of D and/or S circuits between Terminals I and II are indicated by numerical prefix, i.e. 2 D/S means 2 direct circuits and one switched circuit.*

*Note 2. – Pending the implementation of proper ATS voice circuits, and provided that aeronautical operational requirements are met, IDD services may be used for the ATS voice communications in low traffic areas.*

6 Location of switching centre(s). Alternate routing location, if available, is indicated in brackets.

*Note 3. – The following networks have been identified in the table for providing the connection between terminals:*

*CAMSAT COCESNA Satellite Communication Network*

*E/CAR Eastern Caribbean Network*

*MEVA Central Caribbean MEVA Satellite Digital Network*

*REDDIG SAM Digital Network*

7 Status of Implementation. Following codes are used in this column:

a) I – if the circuit is implemented.

*Note 4. – If the circuit is implemented but there are short-term plans to establish it in other private/public network(s), the symbol I/P shall be introduced indicating in Column 8 – Remarks, the future network environment for the circuit.*

b) no indication or mark if the circuit is not implemented and its implementation data is unknown.

c) if the circuit is not implemented but its implementation date is available, same is indicated in brackets.

8 Remarks/notes

**Tabla CNS 1C - PLAN DE CIRCUITOS ORALES ATS**  
*EXPLICACIÓN DE LA TABLA*

*Columna*

- 1 y 2 Las estaciones terminales de los circuitos se enumeran alfabéticamente por la estación Terminal I.
- 3 A - indica requisitos ATS para las comunicaciones de voz que deberían ser establecidos en 15 segundos.  
D - indica requisitos para comunicaciones instantáneas.
- 4 Tipo de servicio especificado:  
LTF - telefonía por circuito terrestre (circuito terrestre, cable UHF, VHF, satélite).  
RTF - radiotelefonía
- 5 Tipo de circuitos, Directo (DIR) o Conmutado (SW).  
D - indica que el circuito mostrado en la Terminal I y II es un circuito directo.  
S - indica que no existe un circuito directo y que el requisito será proporcionado a través del(de los) centro(s) conmutadores indicados en la columna 6.  
IDD - Servicio de discado directo internacional por la red telefonica conmutada pública

*Nota 1: El número de circuitos D y/o S entre los Terminales I y II es indicado por un prefijo numérico; ejemplo, 2 D/S significa 2 circuitos directos y un conmutado.*

*Nota 2: Hasta la implantación de los circuitos orales ATS apropiados, siempre que satisfagan los requerimientos operacionales aeronáuticos, podrán usarse los servicios IDD para las comunicaciones orales ATS en las zonas de baja densidad de tránsito.*

- 6 Localización de centro(s) conmutadores. Si se dispone, la localidad alterna de encaminamiento es indicada entre paréntesis.

*Nota 3: Las siguientes redes han sido identificadas en la tabla para proveer la conexión entre los terminales: CAMSAT*

*Red de Comunicaciones via Satelite de COCESNA*

*E/CAR Red Digital del Caribe del Este*

*MEVA Red Digital Satelital MEVA del Caribe Central*

*REDDIG Red Digital SAM*

- 7 Estado de implantación. Se utilizan los siguientes códigos en esta columna:

- a) I - si el circuito está implantado.

*Nota 4: Si el circuito está implantado, pero existen planes a corto plazo para establecerlo dentro de otra red pública/privada, el símbolo I/P debe colocarse indicando en la Columna 8 - Observaciones, el futuro ambiente de red para el circuito.*

- b) ninguna indicación o marca, si el circuito no está implantado y la fecha de implantación es desconocida.

- c) si el circuito no está implantado, pero la fecha de implantación está disponible, ésta es indicada entre paréntesis.

- 8 Observaciones/notas

TABLA/TABLE CNS 1 C - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS							
ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales			Circuit/Circuito			Status of implementation/ Estado de implantacion	Remarks/ Observaciones
Terminal I	Terminal II	Type/ Tipo	Service/ Servicio	D/S	To be switched via/ A ser conmutado via		
1	2	3	4	5	6	7	8
<b>ANGOLA</b>							
Luanda ACC	Atlantico ACC	A	LTF			(2003)	
<b>ANGUILLA (United Kingdom)</b>							
Anguilla TWR	Juliana APP	A	LTF	D		I	
<b>ANTIGUA AND BARBUDA</b>							
V.C. Bird APP	Blackburne TWR	A	LTF	S	E/CAR	I	
	Golden Rock TWR	A	LTF	S	E/CAR	I	
	Juliana APP	A	LTF	S	E/CAR	I	
	Piarco ACC	A	LTF	S	E/CAR	I	
	Pointe-a-Pitre APP	D	LTF	D		I	
	San Juan ACC	A	LTF	S	E/CAR	I	
<b>ARGENTINA</b>							
Aeroparque TWR	Colonia TWR	A	LTF	D		I	
Baires APP	Carrasco APP	D	LTF	D		I	
	Montevideo ACC	D	LTF	D		I	
Cataratas del Iguazú TWR	Foz APP	D	LTF	D		I	
Comodoro Rivadavia ACC	Ezeiza ACC	A	LTF	S	EZEIZA	I	
	Puerto Montt ACC	A	LTF	S	EZEIZA	I/P	REDDIG
	Punta Arenas ACC	A	LTF	S	EZEIZA	I/P	REDDIG
Córdoba ACC	Ezeiza ACC	A	LTF	S	EZEIZA	I	
	La Paz ACC	A	LTF	S	EZEIZA	I/P	REDDIG
	Mendoza ACC	A	LTF	S	EZEIZA	I	
	Resistencia ACC	A	LTF	S	EZEIZA	I	
	Santiago ACC	A	LTF	S	EZEIZA	I/P	REDDIG
Ezeiza ACC	Johannesburg ACC	A	LTF	IDD		I	
	Carrasco APP	A	LTF	S	EZEIZA	I	
	Comodoro Rivadavia ACC	A	LTF	S	EZEIZA	I	
	Córdoba ACC	A	LTF	S	EZEIZA	I	
	Mendoza ACC	A	LTF	S	EZEIZA	I	
	Montevideo ACC	A	LTF	S	EZEIZA	I	
	Resistencia ACC	A	LTF	S	EZEIZA	I/P	REDDIG
Mendoza ACC	Córdoba ACC	A	LTF	S	EZEIZA	I	
	Ezeiza ACC	A	LTF	S	EZEIZA	I	
	Santiago ACC	A	LTF	D		I/P	REDDIG
Resistencia ACC	Asunción ACC	A	LTF	S	EZEIZA	I	
	Córdoba ACC	A	LTF	S	EZEIZA	I	
	Curitiba ACC	A	LTF	S	EZEIZA	I/P	REDDIG
	Ezeiza ACC	A	LTF	S	EZEIZA	I	
	Foz APP	A	LTF	D		I	
	Montevideo ACC	A	LTF	S	EZEIZA	I/P	REDDIG
Rio Gallegos TWR	Punta Arenas ACC	A	LTF	D		I	
S.C. de Bariloche APP	Puerto Montt ACC	A	LTF	S	EZEIZA	I/P	REDDIG
<b>ARUBA (Netherlands, Kingdom of the)</b>							
Aruba APP	Curacao ACC	D	LTF	ID/IS	MEVA	I	
	Josefa Camejo TWR	A	LTF	D		I	

TABLA/TABLE CNS 1 C - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS										
ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales			Circuit/Circuito			Status of implementation/ Estado de implantacion	Remarks/ Observaciones			
Terminal I	Terminal II	Type/ Tipo	Service/ Servicio	D/S	To be switched via/ A ser conmutado via					
1	2	3	4	5	6	7	8			
<b>BAHAMAS</b>										
Nassau ACC	Miami ACC	D	LTF	2D/S	MEVA	I				
<b>BARBADOS</b>										
Grantley Adams APP	E.T. Joshua TWR	A	LTF	S	E/CAR	I				
	Fort de France APP	D	LTF	D						
	Piarco ACC	D	LTF	D						
	Saint Lucia APP	A	LTF	S						
<b>BELIZE</b>										
Belize APP	Cenamer ACC	A	LTF	D		I/P	CAMSAT			
	La Aurora APP	A	LTF	D		I/P	CAMSAT			
	La Ceiba TWR	A	LTF	D		I/P	CAMSAT			
	La Mesa APP	A	LTF	D		I/P	CAMSAT			
	Mérida ACC	A	LTF	D		I				
	Puerto Barrios TWR	A	LTF	D		I/P	CAMSAT			
	Roatán TWR	A	LTF	D						
Tikal APP	A	LTF	D		I/P	CAMSAT				
<b>BOLIVIA</b>										
La Paz ACC	Amazonico ACC	A	LTF	S	LIMA (EZEIZA)	(2003)	REDDIG			
	Asunción ACC	A	LTF			I/P	REDDIG			
	Brasilia ACC	A	LTF			I/P	REDDIG			
	Córdoba ACC	A	LTF			S	EZEIZA (LIMA)	I/P	REDDIG	
	Curitiba ACC	A	LTF			S	EZEIZA (LIMA)	I/P	REDDIG	
	Lima ACC	A	LTF			S	EZEIZA (LIMA)	I/P	REDDIG	
	Santiago ACC	A	LTF			S	LIMA (EZEIZA)	I/P	REDDIG	
<b>BRAZIL</b>										
Amazonico ACC	Amazonas APP	D	LTF			(2003)				
	Atlantico ACC	A	LTF			(2003)				
	Bogotá ACC	A	LTF			(2003)				
	Brasilia ACC	D	LTF			(2003)				
	Georgetown ACC	A	LTF			(2003)				
	Maiquetia ACC	A	LTF			(2003)				
	La Paz ACC	A	LTF			(2003)				
	Lima ACC	A	LTF			(2003)				
	Paramaribo ACC	A	LTF			(2003)				
	Recife ACC	D	LTF			(2003)				
Rochambeau ACC	A	LTF	(2003)							
Atlantico ACC	Amazonico ACC	A	LTF			(2003)				
	Brasilia ACC	A	LTF			(2003)				
	Curitiba ACC	A	LTF			(2003)				
	Dakar ACC	A	LTF			(2003)				
	Johannesburg ACC	A	LTF			(2003)				
	Luanda ACC	A	LTF			(2003)				
	Montevideo ACC	A	LTF			(2003)				
Brasilia ACC	Amazonico ACC	D	LTF			(2003)				
	Atlantico ACC	A	LTF			(2003)				
	Curitiba ACC	D	LTF			D		I		
	La Paz ACC	A	LTF			S		LIMA (EZEIZA)	I/P	REDDIG
	Recife ACC	D	LTF			S		BRASILIA	I	
Curitiba ACC	Asunción ACC	A	LTF			I	REDDIG			
	Atlantico ACC	A	LTF			(2003)				
	Brasilia ACC	D	LTF			D		I		
	Foz APP	D	LTF			D		I		
	La Paz ACC	A	LTF			S		BRASILIA	I/P	REDDIG
	Montevideo ACC	D	LTF			S		EZEIZA (LIMA)	I/P	REDDIG
	Resistencia ACC	A	LTF			S		BRASILIA	I/P	REDDIG

TABLA/TABLE CNS 1 C - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS							
ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales			Circuit/Circuito			Status of implementation/ Estado de implantacion	Remarks/ Observaciones
Terminal I	Terminal II	Type/ Tipo	Service/ Servicio	D/S	To be switched via/ A ser conmutado via		
1	2	3	4	5	6	7	8
Foz APP	Asunción ACC Cataratas del Iguazú TWR Curitiba ACC Guarani APP Resistencia ACC	A D D D A	LTF LTF LTF LTF LTF	D D D D D			
Recife ACC	Amazonico ACC Atlantico ACC Brasilia ACC	D A D	LTF LTF LTF		BRASILIA	(2003) (2003) I	
Tabatinga Radio	Amazonas APP	A	LTF	D		I	
<b>CAYMAN ISLANDS</b> (United Kingdom)							
Grand Cayman APP	Cenamer ACC Habana ACC Kingston ACC	A A A	LTF LTF LTF	S S S	MEVA MEVA MEVA	I I I	
<b>CHILE</b>							
Antofagasta APP	Santiago ACC	D	LTF	D		1	
Isla de Pascua ACC	Santiago ACC	A	LTF	S	SANTIAGO	I	
Puerto Montt ACC	Comodoro Rivadavia ACC	A	LTF	S	SANTIAGO	I/P	REDDIG
	Punta Arenas ACC	A	LTF	S	SANTIAGO	I	
	San Carlos de Bariloche APP	A	LTF	S	SANTIAGO	I/P	REDDIG
	Santiago ACC	D	LTF	D	SANTIAGO	I	
Punta Arenas ACC	Comodoro Rivadavia ACC	A	LTF	S	SANTIAGO	I/P	REDDIG
	Puerto Montt ACC	A	LTF	S	SANTIAGO	I	
	Rio Gallegos TWR	A	LTF	D		I	
Santiago ACC	Antofagasta APP	D	LTF	D		I	
	Concepcion APP	A	LTF	S	SANTIAGO	I	
	Córdoba ACC	A	LTF				
	Iquique APP	D	LTF				
	Isla de Pascua ACC	A	LTF	S	SANTIAGO	I	
	La Paz ACC	A	LTF				
	Lima ACC	A	LTF	S	SANTIAGO (EZEIZA)	I/P	REDDIG
	Mendoza ACC	A	LTF	D		I	REDDIG
	Puerto Montt ACC	D	LTF	s	SANTIAGO	I	
Temuco APP	A	LTF	S	SANTIAGO	I		
Concepcion APP	Santiago ACC	A	LTF	S	SANTIAGO		
Temuco APP	Santiago ACC	A	LTF	S	SANTIAGO		
Iquique APP	Santiago ACC	D	LTF	D			
<b>COLOMBIA</b>							
Amazonas APP	Amazonico ACC	D	LTF			(2003)	
	Bogotá ACC	A	LTF	D		I	
	Lima ACC	A	LTF	S	BOGOTA	I	
	Tabatinga Radio	A	LTF	D		I	
Andes APP	Bogotá ACC	A	LTF	D			
	Cali ACC	A	LTF				
	Guayaquil ACC	A	LTF	D			
	Tulcán TWR	A	LTF	D			
Barranquilla ACC	Bogotá ACC	D	LTF	D		I	
	Curacao ACC	A	LTF	S	BOGOTA	I	
	Kingston ACC	A	LTF	S	BOGOTA	I	
	Maiquetía ACC	A	LTF	S	BOGOTA	I/P	REDDIG
	Panamá ACC	A	LTF	S	BOGOTA	I	

TABLA/TABLE CNS 1 C - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS							
ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales			Circuit/Circuito			Status of implementation/ Estado de implantacion	Remarks/ Observaciones
Terminal I	Terminal II	Type/ Tipo	Service/ Servicio	D/S	To be switched via/ A ser conmutado via		
1	2	3	4	5	6	7	8
Bogotá ACC	Amazonas APP	A	LTF	D		I	
	Amazonico ACC	A	LTF				
	Andes APP	A	LTF				
	Barranquilla ACC	A	LTF	S	BOGOTA	I	
	Cali ACC	A	LTF				
	Cenamer ACC	A	LTF	S	BOGOTA	I	
	Guayaquil ACC	A	LTF	S	BOGOTA	I/P	REDDIG
	Lima ACC	A	LTF	S	LIMA	I/P	REDDIG
	Maiquetia ACC	A	LTF	S	BOGOTA	I/P	REDDIG
	Medellin ACC	D	LTF				
Panamá ACC	A	LTF	S	BOGOTA	I/P	REDDIG	
Cali ACC	Andes APP	A	LTF				
	Bogotá ACC	D	LTF				
	Guayaquil ACC	A	LTF				
	Panamá ACC	A	LTF				
Cúcuta APP	Maiquetia ACC	A	LTF	D		I	
	San Antonio TWR	A	LTF	D		I	
Cúcuta TWR	San Antonio TWR	A	LTF	D		I	
Medellin ACC	Bogotá ACC	D	LTF				
	Panamá ACC	A	LTF				
San Andrés APP	Panamá ACC	A	LTF	D			
<b>COSTA RICA</b>							
El Coco ACC	Cenamer ACC	D	LTF	D		I/P	CAMSAT
	Liberia APP	A	LTF	D		I/P	CAMSAT
	Managua APP	A	LTF	D		I/P	CAMSAT
	Panamá ACC	D	LTF	D		I/P	CAMSAT
Liberia APP	El Coco ACC	A	LTF	D		I/P	CAMSAT
<b>COCESNA</b>							
Cenamer ACC	Belize APP	A	LTF	D		I/P	CAMSAT
	Bogotá ACC	A	LTF	D		I	
	El Coco ACC	D	LTF	D		I/P	CAMSAT
	El Salvador APP	D	LTF	D		I/P	CAMSAT
	Grand Cayman APP	A	LTF	S	MEVA	I	
	Guayaquil ACC	A	LTF	D		I	
	Habana ACC	A	LTF	S	MEVA	I	
	Ilopango APP	A	LTF	D		I/P	CAMSAT
	Kingston ACC	A	LTF	S	MEVA	I	
	La Aurora APP	D	LTF	D		I/P	CAMSAT
	La Ceiba TWR	A	LTF	D		I/P	CAMSAT
	La Mesa APP	D	LTF	D		I/P	CAMSAT
	Managua APP	A	LTF	D		I/P	CAMSAT
	Mérida ACC	D	LTF	D		I	
	Panamá ACC	D	LTF	D		I	
	Roatán TWR	A	LTF	D			CAMSAT
	Tikal APP	A	LTF	D		I/P	CAMSAT
	Toncontin APP	A	LTF				
<b>CUBA</b>							
Habana ACC	Cenamer ACC	A	LTF	S	MEVA	I	
	Grand Cayman APP	A	LTF	S	MEVA	I	
	Kingston ACC	A	LTF	ID/IS	MEVA	I	MEVA
	Mérida ACC	D	LTF	D		I	
	Miami ACC	D	LTF	2D/1S	MEVA	I	MEVA
	Port au Prince ACC	A	LTF	S	MEVA	I	

TABLA/TABLE CNS 1 C - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS							
ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales			Circuit/Circuito			Status of implementation/ Estado de implantacion	Remarks/ Observaciones
Terminal I	Terminal II	Type/ Tipo	Service/ Servicio	D/S	To be switched via/ A ser conmutado via		
1	2	3	4	5	6	7	8
<b>DOMINICA</b> (Non-Contracting State)							
Canefield TWR	Pointe-a-Pitre APP	A	LTF	D		I	
Melville Hall TWR	Pointe-a-Pitre APP	A	LTF	D		I	
<b>DOMINICAN REPUBLIC</b>							
Santo Domingo ACC	Curacao ACC	D	LTF	D		I/P	MEVA
	Miami ACC	D	LTF	D		I	MEVA
	Port-au-Prince ACC	D	LTF	D		I/P	MEVA
	San Juan ACC	D	LTF	D		I	MEVA
<b>ECUADOR</b>							
Guayaquil ACC	Andes APP	A	LTF	D		I/P	
	Bogotá ACC	A	LTF	S	BOGOTA (LIMA)	I/P	REDDIG
	Cali ACC	A	LTF				
	Cenamer ACC	A	LTF	S	BOGOTA	I/P	REDDIG
	Lima ACC	A	LTF	S	LIMA (BOGOTA)	I/P	REDDIG
Tulcán TWR	Andes APP	A	LTF				
<b>EL SALVADOR</b>							
El Salvador APP	Cenamer ACC	D	LTF	D		I/P	CAMSAT
	Ilopango APP	A	LTF	D		I/P	CAMSAT
	La Aurora APP	D	LTF	D		I/P	CAMSAT
	La Mesa APP	D	LTF	D		I/P	CAMSAT
	Managua APP	A	LTF	D		I/P	CAMSAT
	Toncontin APP	A	LTF	D		I/P	CAMSAT
Ilopango APP	Cenamer ACC	A	LTF	D		I/P	CAMSAT
	El Salvador APP	A	LTF	D		I/P	CAMSAT
<b>FRENCH ANTILLES</b> (France)							
Fort-de-France APP	George Charles TWR	D	LTF	D			
	Grantley Adams APP	D	LTF	D		I	E/CAR
	Piarco ACC	D	LTF	D		I	E/CAR
	Pointe-a-Pitre APP	D	LTF	D		I	E/CAR
	Saint Lucia APP	D	LTF	D		I	E/CAR
Pointe-a-Pitre APP	Canefield TWR	A	LTF	D		I	E/CAR
	Fort-de-France APP	D	LTF	D		I	
	Melville Hall TWR	A	LTF	D		I	E/CAR
	Piarco ACC	D	LTF	D		I	E/CAR
	San Juan ACC	D	LTF	D		I	E/CAR
	V.C. Bird APP	D	LTF	D		I	E/CAR
St. Barthelemy AFIS	Juliana APP	A	LTF	D		I	E/CAR
St. Martin Grandcase AFIS	Juliana APP	A	LTF	D		I	E/CAR
<b>FRENCH GUIANA</b> (France)							
Rochambeau ACC	Amazonico ACC	A	LTF			(2003)	
	Atlantico ACC	A	LTF			(2003)	
	Dakar ACC	A	LTF	IDD		I	
	Paramaribo ACC	A	LTF	IDD		I	
	Piarco ACC	A	LTF	IDD		I	
<b>GRENADA</b>							
Pointe Salines APP	Piarco ACC	A	LTF	D		I	E/CAR

TABLA/TABLE CNS 1 C - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS							
ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales			Circuit/Circuito			Status of implementation/ Estado de implantacion	Remarks/ Observaciones
Terminal I	Terminal II	Type/ Tipo	Service/ Servicio	D/S	To be switched via/ A ser conmutado via		
1	2	3	4	5	6	7	8
<b>GUATEMALA</b>							
Tikal APP	Belize APP Cenamer ACC La Aurora APP	A A A	LTF LTF LTF				
La Aurora APP	Belize APP Cenamer ACC El Salvador APP La Mesa APP Puerto Barrios TWR Tikal APP Toncontin APP	A D D D A A A	LTF LTF LTF LTF LTF LTF LTF	D D D D D D D		I/P I/P I/P I/P I/P I/P I/P	CAMSAT CAMSAT CAMSAT CAMSAT CAMSAT CAMSAT CAMSAT
Puerto Barrios TWR	Belize APP La Aurora APP La Mesa APP	A A A	LTF LTF LTF	D D D		I/P I/P I/P	CAMSAT CAMSAT CAMSAT
<b>GUYANA</b>							
Georgetown ACC	Amazonico ACC Maiquetia ACC Paramaribo ACC Piarco ACC	A A A A	LTF LTF LTF LTF		(2003)		
<b>HAITI</b>							
Port-au-Prince ACC	Curacao ACC Habana ACC Kingston ACC Miami ACC Santo Domingo ACC	A A A A D	LTF LTF LTF LTF LTF	S S S S S	MEVA MEVA MEVA MEVA MEVA	I I I I I	
<b>HONDURAS</b>							
La Ceiba TWR	Belize APP Cenamer ACC La Mesa APP Roatán TWR Toncontin APP	A A A A A	LTF LTF LTF LTF LTF	D D D D D		I/P I/P I/P I/P I/P	CAMSAT CAMSAT CAMSAT CAMSAT CAMSAT
La Mesa APP	Belize APP Cenamer ACC El Salvador APP La Aurora APP La Ceiba TWR Puerto Barrios TWR Roatán TWR	A D D D A A A	LTF LTF LTF LTF LTF LTF LTF	D D D D D D D		I/P I/P I/P I/P I/P I/P I/P	CAMSAT CAMSAT CAMSAT CAMSAT CAMSAT CAMSAT CAMSAT
Roatán TWR	Belize APP Cenamer ACC La Ceiba APP La Mesa APP	A A A A	LTF LTF LTF LTF	D D D D		I/P I/P I/P I/P	CAMSAT CAMSAT CAMSAT CAMSAT
Tocontin APP	Cenamer ACC El Salvador APP La Aurora APP La Ceiba TWR Managua APP	A A A A A	LTF LTF LTF LTF LTF	D D D D D		I/P I/P I/P I/P I/P	CAMSAT CAMSAT CAMSAT CAMSAT CAMSAT
<b>JAMAICA</b>							
Kingston ACC	Barranquilla ACC Cenamer ACC Curacao ACC Grand Cayman APP Habana ACC Panamá ACC Port-au-Prince ACC	A A A A A A A	LTF LTF LTF LTF LTF LTF LTF	S S S S ID/S S S	BOGOTA MEVA MEVA MEVA MEVA MEVA MEVA	I I I I I I I	MEVA

TABLA/TABLE CNS 1 C - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS							
ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales			Circuit/Circuito			Status of implementation/ Estado de implantacion	Remarks/ Observaciones
Terminal I	Terminal II	Type/ Tipo	Service/ Servicio	D/S	To be switched via/ A ser conmutado via		
1	2	3	4	5	6	7	8
<b>MEXICO</b>							
Mazatlán ACC	Albuquerque ACC	D	LTF	D			
	Los Angeles ACC	D	LTF	D			
	México ACC	D	LTF	D			
	Monterrey ACC	D	LTF	D			
	Oakland ACC	A	LTF	D			
Mérida ACC	Belize APP	A	LTF	D			
	Cenamer ACC	D	LTF	D			
	Habana ACC	D	LTF	D			
	Houston ACC	A	LTF	D			
	México ACC	D	LTF	D			
	Monterrey ACC	D	LTF	D			
México ACC	Mazatlán ACC	D	LTF	D			
	Mérida ACC	D	LTF	D			
	Monterrey ACC	D	LTF	D			
Monterrey ACC	Albuquerque ACC	D	LTF	D			
	Houston ACC	D	LTF	D			
	Mazatlán ACC	D	LTF	D			
	Mérida ACC	D	LTF	D			
	México ACC	D	LTF	D			
<b>MONTSERRAT (United Kingdom)</b>							
Blackburne TWR	V.C. Bird APP	A	LTF	D			
<b>NETHERLANDS ANTILLES (Netherlands)</b>							
Curacao ACC	Aruba APP	D	LTF	ID/IS			MEVA
	Barranquilla ACC	A	LTF	S	MEVA		
	Kingston ACC	A	LTF	S	BOGOTA		
	Maiquetía ACC	A	LTF	D	MEVA		
	Port-au-Prince ACC	A	LTF	S	MEVA		
	San Juan ACC	A	LTF	S	MEVA		
	Santo Domingo ACC	D	LTF	S	MEVA	I/P	MEVA
Juliana APP	Anguilla TWR	A	LTF	D			
	Golden Rock TWR	A	LTF	D			
	St. Barthelemy AFIS	A	LTF	D			
	San Juan ACC	A	LTF	D			
	St. Martin Grandcase AFIS	A	LTF				
	V.C. Bird APP	A	LTF	D			
<b>NICARAGUA</b>							
Managua APP	Cenamer ACC	A	LTF	D		I/P	CAMSAT
	El Coco ACC	A	LTF	D		I/P	CAMSAT
	El Salvador APP	A	LTF	D		I/P	CAMSAT
	Tocontín APP	A	LTF	D		I/P	CAMSAT
<b>PANAMÁ</b>							
Panamá ACC	Barranquilla ACC	D	LTF	S	BOGOTA	I/P	
	Bogotá ACC	D	LTF	S	BOGOTA	I/P	
	Cali ACC	A	LTF				
	Cenamer ACC	D	LTF	D			
	El Coco ACC	D	LTF	D			
	Kingston ACC	A	LTF	S	MEVA		
	Medellin ACC	A	LTF				
	San Andrés APP	D	LTF	D			
<b>PARAGUAY</b>							
Asunción ACC	Curitiba ACC	A	LTF	S	EZEIZA	I/P	REDDIG
	Foz APP	A	LTF	D			

TABLA/TABLE CNS 1 C - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS							
ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales			Circuit/Circuito			Status of implementation/ Estado de implantacion	Remarks/ Observaciones
Terminal I	Terminal II	Type/ Tipo	Service/ Servicio	D/S	To be switched via/ A ser conmutado via		
1	2	3	4	5	6	7	8
	La Paz ACC Resistencia ACC	A A	LTF LTF	S S	EZEIZA EZEIZA	I/P I/P	REDDIG REDDIG
Guaraní APP	Foz APP	A	LTF	D			
<b>PERU</b>							
Lima ACC	Amazonas APP Amazonico ACC Bogotá ACC Guayaquil ACC La Paz ACC Santiago ACC	A A A A A A	LTF LTF LTF LTF LTF LTF	S  S S S S	LIMA  LIMA LIMA LIMA LIMA	I (2003) I/P I/P I/P I/P	REDDIG REDDIG REDDIG REDDIG REDDIG
<b>PUERTO RICO (United States)</b>							
San Juan ACC	Beef Island TWR Curacaon ACC Golden Rock TWR Juliana APP Maiquetía ACC Miami ACC New York ACC Piarco ACC Pointe-a-Pitre APP Santo Domingo ACC V.C. Bird APP	A A A D A D D A D D D A	LTF LTF LTF LTF LTF LTF LTF LTF LTF LTF LTF	D S D D D D D D D D D D	MEVA     MEVA	I I I I I I I I/P I I	E/CAR MEVA
<b>SAINT KITTS AND NEVIS (non-Contracting State)</b>							
Golden Rock TWR	Juliana APP San Juan ACC V.C. Bird APP	A A A	LTF LTF LTF	D D D		I I I	
<b>SAINT LUCIA</b>							
George Charles TWR	Fort-de-France APP	D	LTF	D		I	E/CAR
Saint Lucia APP	E.T. Joshua APP Fort-de-France APP Grantley Adams APP Piarco ACC	A D A D	LTF LTF LTF LTF	D D D D		I I I I	E/CAR E/CAR E/CAR E/CAR
<b>SAINT VINCENT AND THE GRENADINES</b>							
E.T. Joshua APP	Grantley Adams APP Piarco ACC Saint Lucia APP	A A A	LTF LTF LTF	D D D		I I I	
<b>SENEGAL</b>							
Dakar ACC	Atlantico ACC Rochambeau ACC	A A	LTF LTF	 IDD		(2003) I	
<b>SOUTH AFRICA</b>							
Johannesburg ACC	Atlantico ACC Ezeiza ACC Montevideo ACC	A A A	LTF LTF LTF	 S S	EZEIZA EZEIZA	(2003) I I	
<b>SURINAME</b>							
Paramaribo ACC	Amazonico ACC Georgetown ACC Piarco ACC Rochambeau ACC	A A A A	LTF LTF LTF LTF	 D D IDD		(2003) I/P I/P	REDDIG REDDIG REDDIG

TABLA/TABLE CNS 1 C - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS							
ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales			Circuit/Circuito			Status of implementation/ Estado de implantacion	Remarks/ Observaciones
Terminal I	Terminal II	Type/ Tipo	Service/ Servicio	D/S	To be switched via/ A ser conmutado via		
1	2	3	4	5	6	7	8
<b>TRINIDAD AND TOBAGO</b>							
Piarco ACC	E.T. Joshua APP	A	LTF	D			E/CAR
	Fort-de-France APP	D	LTF	D			E/CAR
	Georgetown ACC	A	LTF	D			E/CAR
	Grantley Adams APP	D	LTF	D			E/CAR
	Maiquetia ACC	A	LTF	D			E/CAR
	New York ACC	A	LTF	D			
	Paramaribo ACC	A	LTF	D			
	Pointe-a-Pitre APP	D	LTF	D			E/CAR
	Pointe Salines APP	A	LTF	D			E/CAR
	Rochambeau ACC	A	LTF	IDD			
	Saint Lucia APP	D	LTF	D			E/CAR
	San Juan ACC	A	LTF	D			E/CAR
	Santa Maria ACC	A	LTF	D			E/CAR
	V.C. Bird APP	A	LTF	D			E/CAR
<b>TURKS AND CAICOS ISLANDS (United Kingdom)</b>							
Providenciales TWR	Miami ACC	A	LTF	D			
<b>UNITED STATES</b>							
Albuquerque ACC	Mazatlán ACC	D	LTF	D			
	Monterrey ACC	D	LTF	D			
Houston ACC	Mérida ACC	A	LTF	D			
	Monterrey ACC	D	LTF	D			
Los Angeles ACC	Mazatlán ACC	D	LTF	D			
Miami ACC	Grand Turk TWR	A	LTF	D			
	Habana ACC	D	LTF	2D/1S	MEVA		MEVA
	Nassau ACC	D	LTF	2D/1S	MEVA		MEVA
	New York ACC	D	LTF	D			
	Port-au-Prince ACC	A	LTF	S	MEVA		
	San Juan ACC	D	LTF	S	MEVA		
	Santo Domingo ACC	D	LTF	S	MEVA		
New York ACC	Miami ACC	D	LTF	D			
	Piarco ACC	A	LTF	D			
	San Juan ACC	D	LTF	D			
Oakland ACC	Mazatlán ACC	A	LTF	D			
<b>URUGUAY</b>							
Carrasco APP	Baires APP	D	LTF	D			
	Ezeiza ACC	A	LTF	D			
Colonia TWR	Aeroparque TWR	A	LTF	D			
Montevideo ACC	Atlantico ACC	A	LTF			(2003)	
	Baires APP	D	LTF	D			
	Curitiba ACC	D	LTF	D		I/P	REDDIG
	Ezeiza ACC	A	LTF	S	EZEIZA	I/P	REDDIG
	Johannesburg ACC	A	LTF	S	EZEIZA	I	
	Resistencia ACC	A	LTF	S	EZEIZA	I/P	REDDIG

TABLA/TABLE CNS 1 C - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS							
ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales			Circuit/Circuito			Status of implementation/ Estado de implantacion	Remarks/ Observaciones
Terminal I	Terminal II	Type/ Tipo	Service/ Servicio	D/S	To be switched via/ A ser conmutado via		
1	2	3	4	5	6	7	8
<b>VENEZUELA</b>							
Josefa Camejo TWR	Aruba APP	A	LTF	D	BOGOTA BOGOTA	(2003) I/P I/P I I I/P I I I	REDDIG REDDIG  REDDIG E/CAR
Maiquetia ACC	Amazonico ACC	A	LTF	S			
	Barranquilla ACC	A	LTF	S			
	Bogotá ACC	A	LTF	D			
	Cúcuta APP	A	LTF	D			
	Curacao ACC	A	LTF	D			
	Georgetown ACC	A	LTF	D			
	Piarco ACC	A	LTF	D			
	San Juan ACC	A	LTF	D			
San Antonio TWR	Cúcuta APP	A	LTF	D			
	Cúcuta TWR	A	LTF	D			
<b>VIRGIN ISLANDS (United Kingdom)</b>							
Beef Island TWR	San Juan ACC	A	LTF	D		I	

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**CHART/CARTA CNS-3**

**TO BE DEVELOPED / A SER DESARROLLADA**

**Table CNS 1C\* - ATS SPEECH CIRCUITS PLAN (BRAZIL)***EXPLANATION OF THE TABLE**Column*

1 and 2 Circuit terminal stations are listed alphabetically by the Terminal I.

3 A – indicates ATS requirement for the establishment of voice communication within 15 seconds.  
D – indicates requirements for instantaneous communications.

4 Type of service specified:  
LTF – landline telephone (landline, cable, UHF, VHF, satellite).  
RTF – radiotelephone.

5 Type of circuits; Direct (DIR) or Switched (SW).  
D – indicates a direct circuit connecting Terminals I and II.  
S – indicates that a direct circuit does not exist and that the connection is established via switching at the switching centre(s) indicated in column 6.  
IDD - International direct dialling by public switch telephone network

*Note 1. – Number of D and/or S circuits between Terminals I and II are indicated by numerical prefix, i.e. 2 D/S means 2 direct circuits and one switched circuit.*

*Note 2. – Pending the implementation of proper ATS voice circuits, and provided that aeronautical operational requirements are met, IDD services may be used for the ATS voice communications in low traffic areas.*

6 Location of switching centre(s). Alternate routing location, if available, is indicated in brackets.

*Note 3. – The following networks have been identified in the table for providing the connection between terminals:*

*CAMSAT COCESNA Satellite Communication Network*

*E/CAR Eastern Caribbean Network*

*MEVA Central Caribbean MEVA Satellite Digital Network*

*REDDIG SAM Digital Network*

7 Status of Implementation. Following codes are used in this column:

d) I – if the circuit is implemented.

*Note 4. – If the circuit is implemented but there are short-term plans to establish it in other private/public network(s), the symbol I/P shall be introduced indicating in Column 8 – Remarks, the future network environment for the circuit.*

e) no indication or mark if the circuit is not implemented and its implementation data is unknown.

f) if the circuit is not implemented but its implementation date is available, same is indicated in brackets.

8 Remarks/notes

**Tabla CNS 1C\* - PLAN DE CIRCUITOS ORALES ATS (BRAZIL)***EXPLICACIÓN DE LA TABLA**Columna*

- 1 y 2 Las estaciones terminales de los circuitos se enumeran alfabéticamente por la estación Terminal I.
- 3 A - indica requisitos ATS para las comunicaciones de voz que deberían ser establecidos en 15 segundos.  
D - indica requisitos para comunicaciones instantáneas.
- 4 Tipo de servicio especificado:  
LTF - telefonía por circuito terrestre (circuito terrestre, cable UHF, VHF, satélite).  
RTF - radiotelefonía
- 5 Tipo de circuitos, Directo (DIR) o Conmutado (SW).  
D - indica que el circuito mostrado en la Terminal I y II es un circuito directo.  
S - indica que no existe un circuito directo y que el requisito será proporcionado a través del(de los) centro(s) conmutadores indicados en la columna 6.  
IDD - Servicio de discado directo internacional por la red telefonica conmutada pública

*Nota 1: El número de circuitos D y/o S entre los Terminales I y II es indicado por un prefijo numérico; ejemplo, 2 D/S significa 2 circuitos directos y un conmutado.*

*Nota 2: Hasta la implantación de los circuitos orales ATS apropiados, siempre que satisfagan los requerimientos operacionales aeronáuticos, podrán usarse los servicios IDD para las comunicaciones orales ATS en las zonas de baja densidad de tránsito.*

- 6 Localización de centro(s) conmutadores. Si se dispone, la localidad alterna de encaminamiento es indicada entre paréntesis.

*Nota 3: Las siguientes redes han sido identificadas en la tabla para proveer la conexión entre los terminales:*

<i>CAMSAT</i>	<i>Red de Comunicaciones via Satelite de COCESNA</i>
<i>E/CAR</i>	<i>Red Digital del Caribe del Este</i>
<i>MEVA</i>	<i>Red Digital Satelital MEVA del Caribe Central</i>
<i>REDDIG</i>	<i>Red Digital SAM</i>

- 7 Estado de implantación. Se utilizan los siguientes códigos en esta columna:

- a) I - si el circuito está implantado.

*Nota 4: Si el circuito está implantado, pero existen planes a corto plazo para establecerlo dentro de otra red pública/privada, el símbolo I/P debe colocarse indicando en la Columna 8 - Observaciones, el futuro ambiente de red para el circuito.*

- b) ninguna indicación o marca, si el circuito no está implantado y la fecha de implantación es desconocida.
- c) si el circuito no está implantado, pero la fecha de implantación está disponible, ésta es indicada entre paréntesis.

- 8 Observaciones/notas

**TABLE/TABLA CNS I C\* - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS**

ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales			Circuit/Circuito			Status of Implementation	Remarks/ Observaciones
Terminal I	Terminal II	Type/ Tipo	Service/ Servicio	D/S	To be switched via/ A ser conmutado via	Estado de implementación	
1	2	3	4	5	6	7	8
<b>BRAZIL</b>							
Belem ACC	Brasilia ACC	A	LTF	S	BRASILIA	I	
	Manaus ACC	A	LTF	S	BRASILIA	I	
	Paramaribo ACC	A	LTF	S	BRASILIA	I/P	REDDIG
	Recife ACC	A	LTF	S	BRASILIA	I	
	Rochambeau ACC	A	LTF	S	BRASILIA	I	
Brasilia ACC	Belem ACC	A	LTF	S	BRASILIA	I	
	Johannesburg ACC	A	LTF	S	BRASILIA	I	
	Curitiba ACC	D	LTF	D		I	
	La Paz ACC	A	LTF	S	LIMA (EZEIZA)	I/P	REDDIG
	Luanda ACC	A	LTF	IDD			
	Manaus ACC	A	LTF	S	BRASILIA	I	
	Porto Velho ACC	A	LTF	S	BRASILIA	I	
	Recife ACC	A	LTF	S	BRASILIA	I	
Curitiba ACC	Asunción ACC	A	LTF	S	EZEIZA	I	
	Brasilia ACC	D	LTF	D		I	
	Foz APP	D	LTF	D		I	
	La Paz ACC	A	LTF	S	EZEIZA(LIMA)	I/P	REDDIG
	Montevideo ACC	A	LTF	D		I/P	REDDIG
	Resistencia ACC	A	LTF	S	BRASILIA	I/P	REDDIG
Foz APP	Asunción ACC	A	LTF	D			
	Cataratas del Iguazú WR	D	LTF	D		I	
	Curitiba ACC	D	LTF	D		I	
	Guaraní APP	D	LTF	D			
	Resistencia ACC	A	LTF	D		I	
Manaus ACC	Belem ACC	A	LTF	S	BRASILIA	I	
	Bogotá ACC	A	LTF	S	BRASILIA	I/P	REDDIG
	Brasilia ACC	A	LTF	S	BRASILIA	I	
	Georgetown ACC	A	LTF	IDD			REDDIG
	Maiquetía ACC	A	LTF	S	BRASILIA	I/P	REDDIG
	Porto Velho ACC	A	LTF	S	BRASILIA	I	
Porto Velho ACC	Amazonas APP	A	LTF	S	BRASILIA		
	Brasilia ACC	A	LTF	S	BRASILIA	I	
	Bogotá ACC	A	LTF	S	BRASILIA	I/P	REDDIG
	La Paz ACC	A	LTF	S	BRASILIA	I/P	REDDIG
	Lima ACC	A	LTF	S	BRASILIA	I/P	REDDIG
	Manaus ACC	A	LTF	S	BRASILIA	I	

TABLE/TABLA CNS 1 C\* - ATS DIRECT SPEECH CIRCUITS PLAN/PLAN DE CIRCUITOS ORALES ATS

ATS requirements for speech communications/ Requisitos ATS para comunicaciones orales							
Terminal I			Terminal II			Status of implementation	
Type/ Tipo			Circuit/Circuito			Estado de implantación	
Terminal I			Terminal II			Remarks/ Observaciones	
1	2	3	4	5	6	7	8
Recife ACC	Dakar ACC	A	LTF	D		I	
	Brasilia ACC	A	LTF	S	BRASILIA	I	
	Belem ACC	A	LTF	S	BRASILIA	I	
Tabatinga Radio	Amazonas APP	D	LTF	D		I	

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