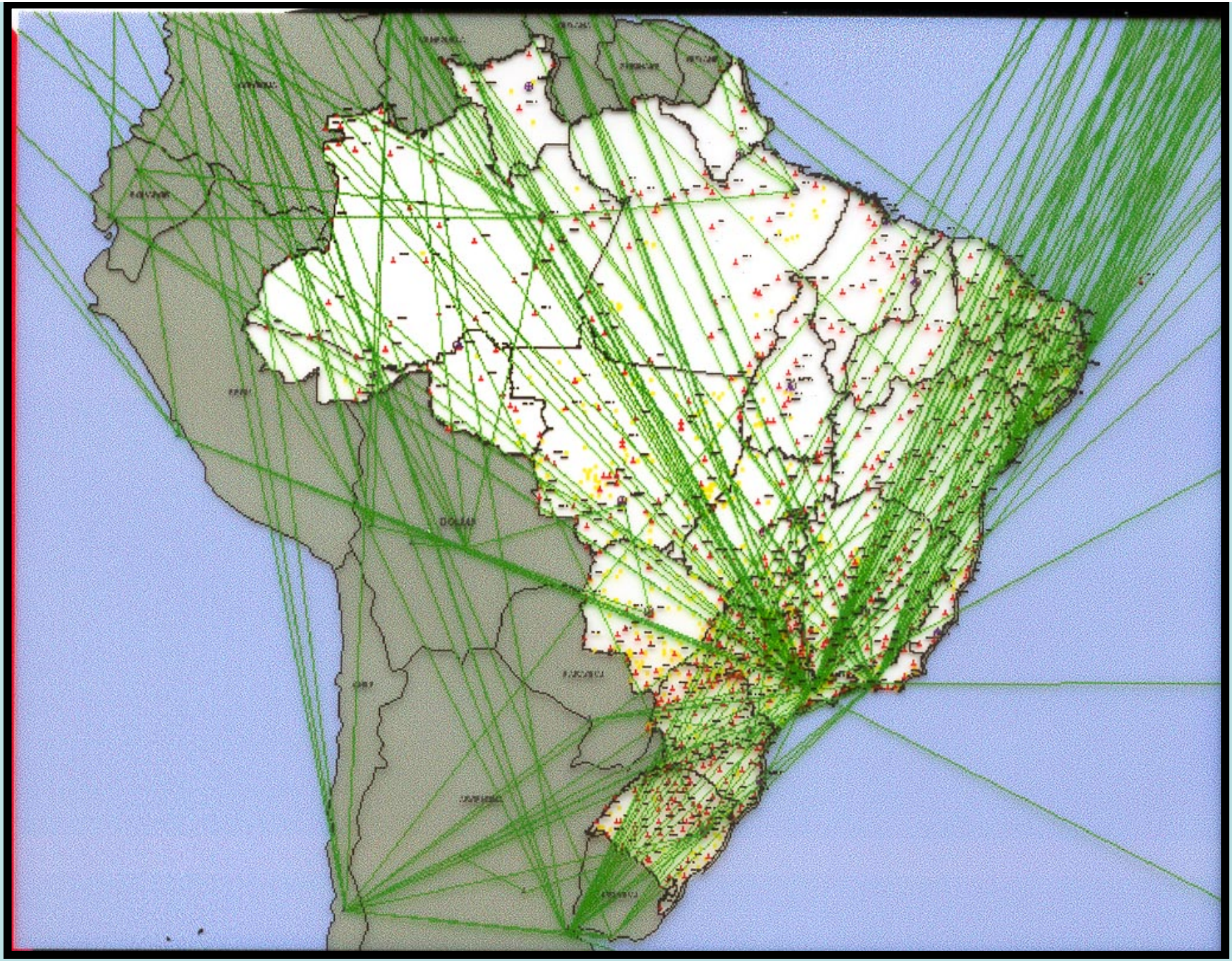
CAR/SAM Automated ACC Interconnection Plan

Objectivo

La interconexión de sistemas automatizados de las Instalaciones de Control de Tránsito Aéreo en las Regiones CAR/SAM tiene el objetivo de:

- establecer la transmisión automatizada de información de planes de vuelo y de vigilancia de los vuelos que están en transición desde uma FIR a otra adyacente
- mejorar el proceso de coordinación de control de tránsito aéreo de vuelos entre los Centros de Control de Tránsito Aéreo afectados.




MIAMI OCEANIC
HOUSTON OCEANIC
MEXICO
MIAMI OCEANIC
SAN JUAN
HABANA
KINGSTON
SANTO DOMINGO
CURACAO
PIARCO
MAZATLAN OCEANIC
CENTRAL AMERICAN
PANAMA
BARRANQUILLA
ROCHAMBEAU
GEORGETOWN
PARAMARIBO
MAIQUETIA
BOGOTA
GUAYAQUIL
AMAZONICA
RECIFE
LIMA
LA PAZ
BRASILIA
ATLANTICO
ANTOFAGASTA
ASUNCION
CURITIBA
CORDOBA
RESISTENCIA
SANTIAGO
MENDOZA
MONTEVIDEO
EZEIZA
PUERTO MONTT
COMODORO RIVADAVIA
PUNTA ARENAS
20°
10°
0°
10°
20°
30°
40°
50°
LEGEND LÉGENDE CLAVE
FLIGHT INFORMATION REGION BOUNDARY
LIMITE DE RÉGION D'INFORMATION DE VOL
LÍMITE DE REGIÓN DE INFORMACIÓN DE VUELO
(FIR)
NAME - NOM - NOMBRE
PANAMA

Agenda

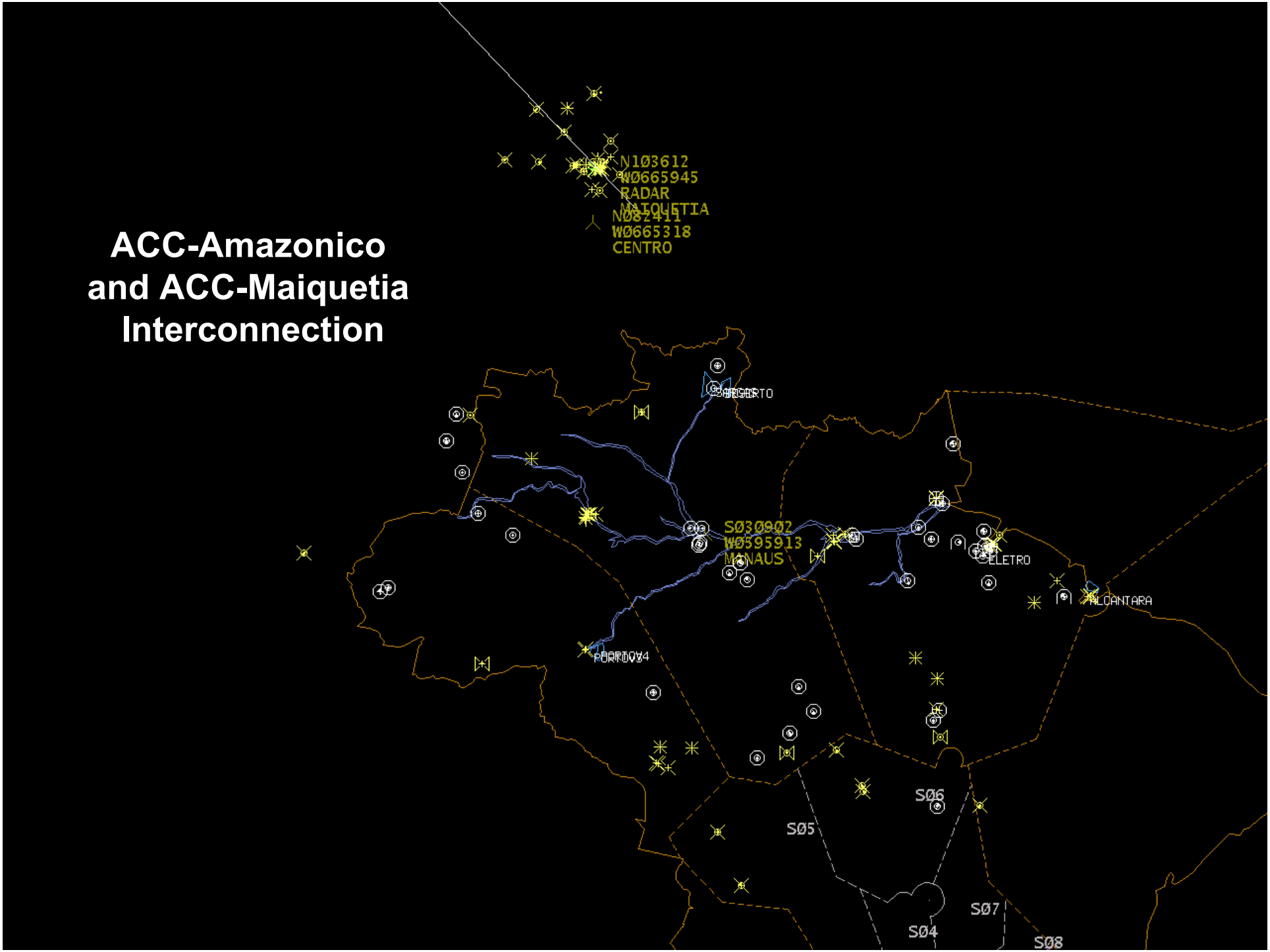
- Activities
- ACC-Amazonico and ACC-Maiquetia Interconnection
- Document Hierarchy
- Radar Interfaces
- System Radar Interfaces
- Flight Plan Interfaces
- Automation Systems
- SICD
- Surveillance interconnection Levels
- Flight Plan interconnection Levels
- Interconnection Plan
- Schedule

Activities

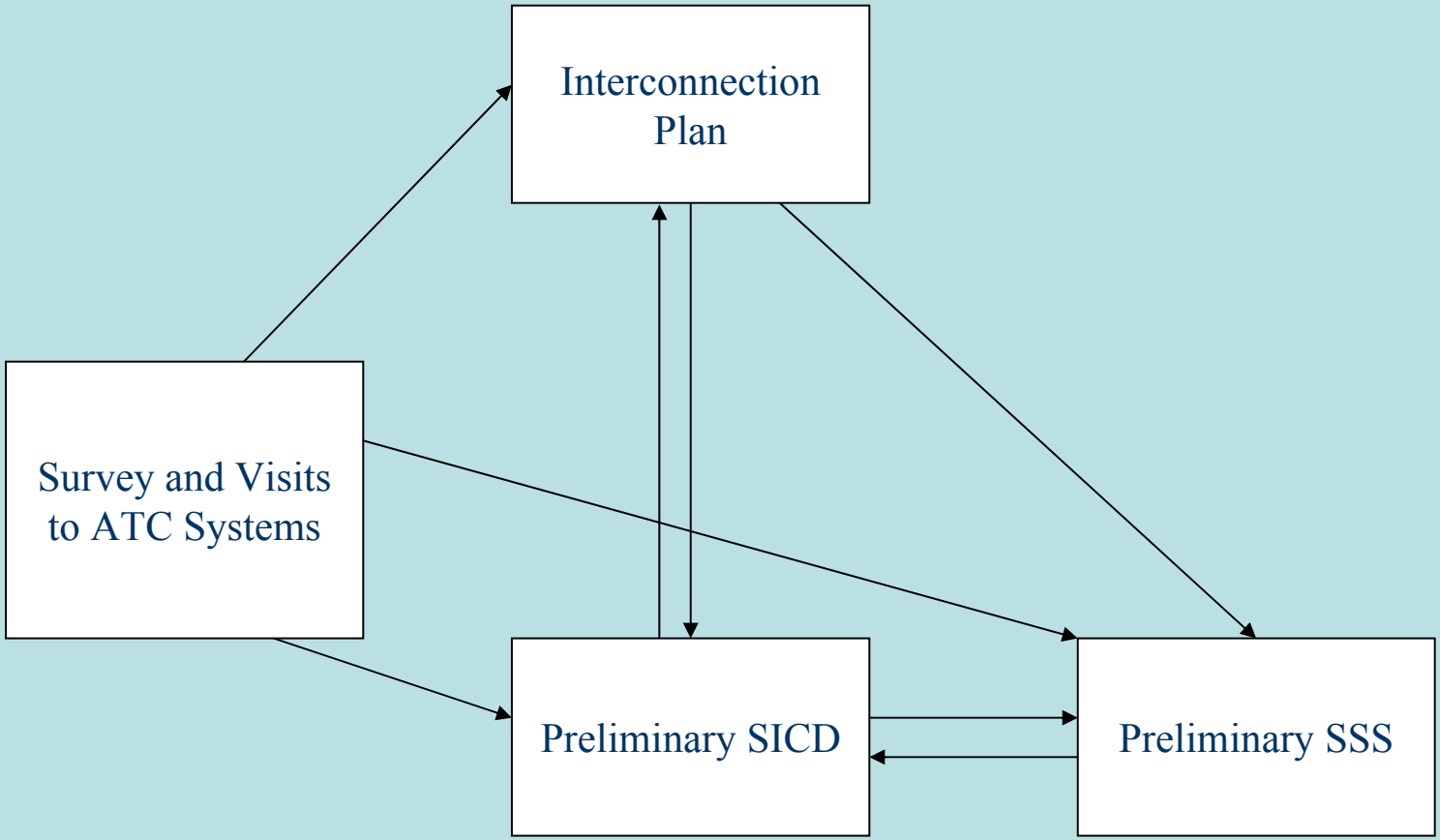
- Elaboration of a questionnaire on automation system installed in the ATS dependencies and their interfaces.
- Performed interconnection tests between the automated systems of Manaos-ACC (FIR Amazonica), in Brazil and Maiquetía-ACC (FIR Maiquetía) in Venezuela.
- Missions to States, for Data Gathering with the purpose of assessing the current situation of the automated air traffic control systems installed in the Area Control Centres of CAR/SAM States.

  On site technical visits were accomplished in Peru, Ecuador, Venezuela, Colombia, Panama, COCESNA, Chile, Uruguay, Argentina and Brazil.
- Elaboration of the Interface Control Document (SICD).
- Elaboration of an Interconnection Plan.
- Elaboration of the System/Subsystem Specification (Not initiated yet).

ACC-Amazonico and ACC-Maiquetia Interconnection



Document hierarchy



Radar Types Allocation 1/2

Radar Type	Radar	Interface ID	Argentina	Brazil	Chile	COCESNA	Colombia	Ecuador	Panama	Peru	Uruguay	Venezuela
3D PSR + MSSR	TPS-B-4 Lockheed Martin	R001		√								
2D PSR + MSSR	LP-23 + RSM 870 THALES	R002	√				√				√	
2D PSR + MSSR	ASR9 + MMSSR	R003							√			
2D PSR + SSR	LP-23 + RSM 970 THALES	R004		√	√							
3D PSR + MSSR	TRS2230 + RSM 970 THALES	R005		√								
2D PSR + MSSR	Tracker 2000 + RSM 970 THALES	R006			√							
2D PSR + MSSR	ATCR33M/S + SIR-M (7) ALENIA	R007	√				√					
2D PSR + MSSR	ATCR33DPC + SIR-S ALENIA	R008					√	√				
2D PSR + MSSR	ATCR22M + SIR-M ALENIA	R009					√					
2D PSR + MSSR	SKYTRACKER + IRS20MPL	R010					√					
3D PSR + MSSR	TPS70	R011					√					
2D PSR + MSSR	STAR2000 + RSM 970 THALES	R012		√	√			√				
2D PSR + MSSR	TA-10 + RSM 970 THALES	R013		√							√	
2D PSR + SSR	TA-10 + RSM770 THALES	R014					√					
2D PSR + MSSR	ASR 23 SS/16 + MSSR Condor MK2 RAYTHEON	R015		√								√
2D PSR+ MSSR	ASR12SS + MSSR (CD-2)	R016								√		

Radar Types Allocation 2/2

Radar Type	Radar	Interface ID	Argentina	Brazil	Chile	COCESNA	Colombia	Ecuador	Panama	Peru	Uruguay	Venezuela
MSSR	RSMA INVAP	R017	√									
MSSR	CARDION	R018			√							
MSSR	SIR-7 Alenia	R019		√								
MSSR	SIR-S SELEX	R020										√
MSSR	CONDOR	R021		√								
MSSR	ISIR-M ALENIA	R022				√						
MSSR	IRS-20MP/L INDRA	R023				√		*				
MSSR	RSM 970 THALES	R024					√					

System Radar Interface to Adjacent Centers Allocation

Surveillance Interface to Adjacent Centers	Interface ID	Argentina	Brazil	Chile	COCESNA	Colombia	Ecuador	Panama	Peru	Uruguay	Venezuela
AMS Interface	**IR025**					√	√				
Inter-CINDACTA	**IR026**		√								√*
INDRA Interface	**IR027**	√**								√**	

√* - With minor software changes used in the Essay Brazil-Venezuela
√- As verified in the SSS, but this requirement has not been tested yet**

Flight Plan interface with Adjacent Centers

Flight Plan Interface	Interface ID	Argentina	Brazil	Chile	COCESNA	Colombia	Ecuador	Panama	Peru	Uruguay	Venezuela
ICAO 4444 & Hand-off Coordination	IF028 IF032		√								√*
ICAO 4444 without Hand-off Coordination	IF029	√		√	√	√	√	√	√	√	
OLDI	IF030	√*		√**	√*	√*	√*	√*		√*	
AIDC	IF031	√***									

√* - Not configured
√ - Only for APP and ACC interconnection**
√* - To be implemented**

ACC ATCS Automation Systems

ATCS Automation System Supplier	Version	Argentina	Brazil	Chile	COCESNA	Colombia	Ecuador	Panama	Peru	Uruguay	Venezuela
ATECH	X-4000		√								√
ATECH/ RAYTHEON	SCO		√								
THOMSON	MITRA		√*								
THALES	EUROCAT1000			√							
INDRA	AIRCON2000				√	√		√			
INDRA	AIRCON2010									√	
INDRA	AIRCON2100	√									
ALENIA/ MARCONI	CMS					√	√				
NORTHROP GRUMMAN	AMS2000								√		

√* - To be changed to ATECH X-4000 this year

SICD

3.1.2 Interface Definition (R002)

Type:	Serial - synchronous
Description	HDLC, Simplex – one way transmission
Data Type:	Radar data
Format:	ASTERIX
Message Definition:	ASTERIX messages types ***001 Radar target report*** ***002 Radar service message*** ***008 Mono-radar derived weather information***
Data Rate:	9.6 kbps
Electrical Characteristics:	RS 232c V24/V28
Physical Connection:	‘D’ type 25 pin at input to Radar Distribution Unit (RDU)
Reference	G630621

Surveillance Interconnection levels

Surveillance Interconnection Level	Interface	Notes
1	Intercenter ASTERIX cat 62,63	Ecuador
2	Intercenter Proprietary ICD	Brazil, Venezuela
3	ASTERIX ICD Radar	-
4	Proprietary ICD	Uruguay, Argentina
5	No data sharing	-

Flight Plan Interconnection levels

Flight Plan Interconnection Level	Interface	Countries	Notes
1	AIDC	Argentina	Not used yet.
2	OLDI	Ecuador, Colombia, Panama, COCESNA, Uruguay, Chile e Argentina	Used by Chile only for ACC and APP interconnection
3	ICAO 4444 Coordination	Brazil, Venezuela	Used by Brazil only for internal ACC interconnection. Venezuela (Essay)
4	ICAO 4444	Peru	

Argentina 1/2

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
CORDOBA INSTAL.	ASUNCIÓN				A					A
	LA PAZ				A					A
	EZEIZA	**P***	**P***		A	**P***		**P***		A
	MENDOZA				A					A
	RESISTENCIA				A					A
	ANTOFAGASTA		**P***		A			**P***		A
RESISTENCIA (NON-AUTO)	ASUNCION				A					A
	CORDOBA				A					A
	CURITIBA				A				**S**	A
	EZEIZA				A					A
	MONTEVIDEO				A					A

Argentina 2/2

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
EZEIZA	RIVADAVIA				A					A
	MENDOZA				A					A
	PUERTO MONTT		**P***		A			**P***		A
	CORDOBA	**P***	**P***		A	**P***		**P***		A
	RESISTENCIA				A					A
	JOHANNESBURG				A					A
	MONTEVIDEO		**P***		A	**P***			A	
MENDOZA (NON AUTO)	EZEIZA				A					A
	SANTIAGO				A					A
	CORDOBA				A					A
RIVADAVIA (NON-AUTO)	EZEIZA				A					A
	PUNTA ARENAS				A					A
	PUERTO MONTT				A					A

Brasil 1/2

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
AMAZONICO	BRASILIA			A				A		
	BOGOTA				A			**P**		A
	GEORGETOWN				A				**S**	A
	LA PAZ				A				**S**	A
	LIMA				A				**S**	A
	MAIQUETIA			**P**	A		**P**			A
	PARAMARIBO				A				**S**	A
	RECIFE			A				A		
	ROCHAMBEAU				A				**S**	A
	ATLANTICO				A					A
BRASILIA	AMAZONICO			A				A		
	CURITIBA			A				A		
	LA PAZ				A				**S**	A
	RECIFE			A				A		
	ATLANTICO				A					A

Brasil 2/2

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
CURITIBA	ASUNCION				A				**S**	A
	BRASILIA			A				A		
	LA PAZ				A				**S**	A
	MONTEVIDEO				A			**P**		A
	RESISTENCIA				A				**S**	A
	ATLANTICO				A					A
RECIFE	AMAZONICO			A				A		
	BRASILIA			A				A		
	ATLANTICO				A					A
ATLANTICO (NON-AUTO)	AMAZONICO				A					A
	BRASILIA				A					A
	CURITIBA				A					A
	DAKAR				A					A
	JOHANNESBURG				A					A
	LUANDA				A					A
	MONTEVIDEO				A					A
	RECIFE				A					A
	ROCHAMBEAU				A					A

Bolivia

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
LA PAZ (NON-AUTO)	AMAZONICO				A				**S**	A
	ASUNCION				A					A
	BRASILIA				A				**S**	A
	CURITIBA				A				**S**	A
	CORDOBA				A					A
	LIMA				A					A
	ANTOFAGASTA				A					A

Chile

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
SANTIAGO	ANTOFAGASTA		A					A		
	PUERTO MONTT		A					A		
	MENDOZA				A					A
	PACIFICO				A					A
ANTOFAGASTA	SANTIAGO		A					A		
	CORDOBA		**P***		A			**P***		A
	LA PAZ				A					A
	LIMA				A					A
	PACIFICO				A					A
PUNTA ARENAS	PUERTO MONTT		A					A		
	COM RIVADAVIA				A					A
PUERTO MONTT	PUNTA ARENAS		A					A		
	COM RIVADAVIA				A					A
	EZEIZA				A					A
	SANTIAGO		A					A		

Colombia

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
BOGOTA	AMAZONICO				A			**P**	**S**	A
	GUAYAQUIL		**P**		A			**P**		A
	LIMA				A					A
	MAIQUETIA				A			**P**		A
	PANAMA		**P**		A			**P**		A
	BARRANQUILLA		**P**		A			**P**		A
BARRANQUILLA	MAIQUETIA				A			**P**		A
	PANAMA		**P**		A			**P**		A
	BOGOTA		**P**		A			**P**		A
	KINGSTON				A					A
	CURAÇAO				A					A

Ecuador

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
GUAYAQUIL	BOGOTA		**P**		A	**P**		**P**		A
	LIMA				A					A
	CENAMER		**P**		A					A

French Guyana

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
ROCHAMBEAU	AMAZONICO				A				**S**	A
	PARAMARIBO				A					A
	PIARCO				A					A
	ATLANTICO				A					A

Guyana

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
GEORGETOWN	AMAZONICO				A				**S**	A
	PIARCO				A					A
	MAIQUETIA				A					A
	PARAMARIBO				A					A

Panama

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
PANAMA	BOGOTA		**P**		A			**P**		A
	BARRANQUILLA		**P**		A			**P**		A
	CENAMER		**P**		A			**P**		A

PARAGUAY

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
ASUNCION (NON AUT)	LA PAZ				A					A
	CURITIBA				A					A
	RESISTENCIA				A					A
	CORDOBA				A					A

Peru

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
LIMA	AMAZONICO				A				**S**	A
	BOGOTA				A				**P**	A
	ANTOFAGASTA				A					A
	GUAYAQUIL				A					A
	LA PAZ				A					A

Suriname

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
PARAMARIBO	AMAZONICO				A				**S**	A
	GEORGETOWN				A					A
	PIARCO				A					A
	ROCHAMBEAU				A					A

Venezuela

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
MAIQUETIA	AMAZONICO			**P**	A		**P**			A
	BOGOTA				A			**P**		A
	BARRANQUILLA				A			**P**		A
	PIARCO				A			**P**		A
	GEORGETOWN				A					A
	CURAÇAO				A					A
	SAN JUAN				A					A

Uruguay

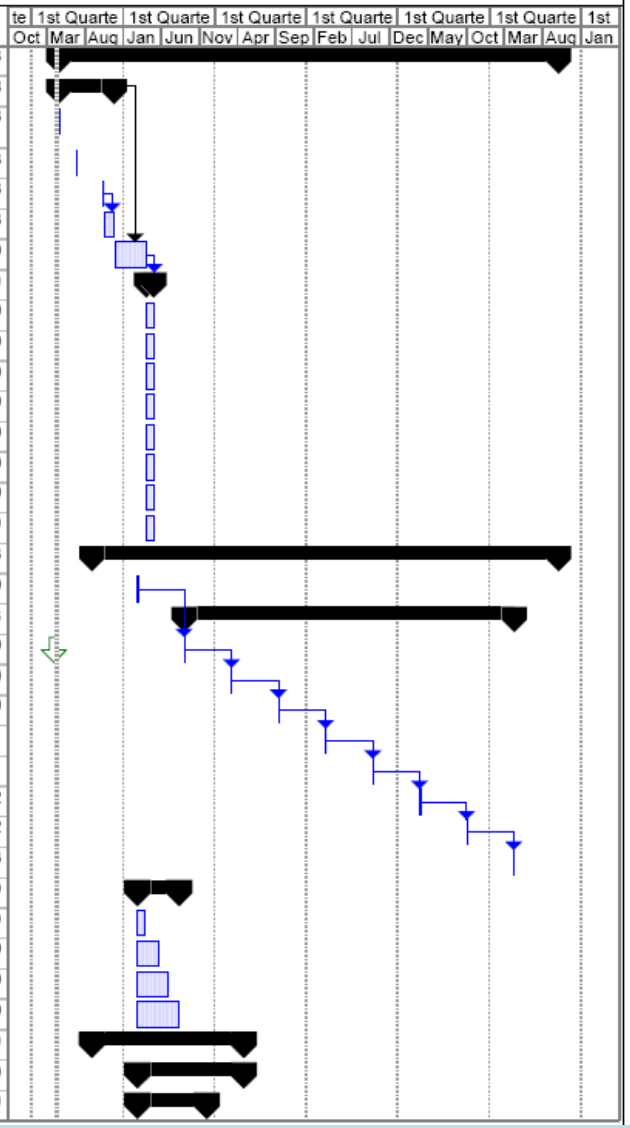
ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
MONTEVIDEO	CURITIBA				A				**S**	A
	EZEIZA		**P**		A	**P***		**P**	A	
	RESISTENCIA				A					A
	ATLANTICO				A					A
	JOHANNESBURG				A					A

COCESNA

ACC	ACC ADJ	FLIGHT PLAN				SURVEILLANCE				
		INTERCONNECTION LEVELS				INTERCONNECTION LEVELS				
		1	2	3	4	1	2	3	4	5
CENAMER	GUAYAQUIL		**P**		A					A
	KINGSTON				A					A
	LA HABANA				A					A
	MERIDA				A					A
	PANAMA		**P**		A					A
	MEXICO				A					A

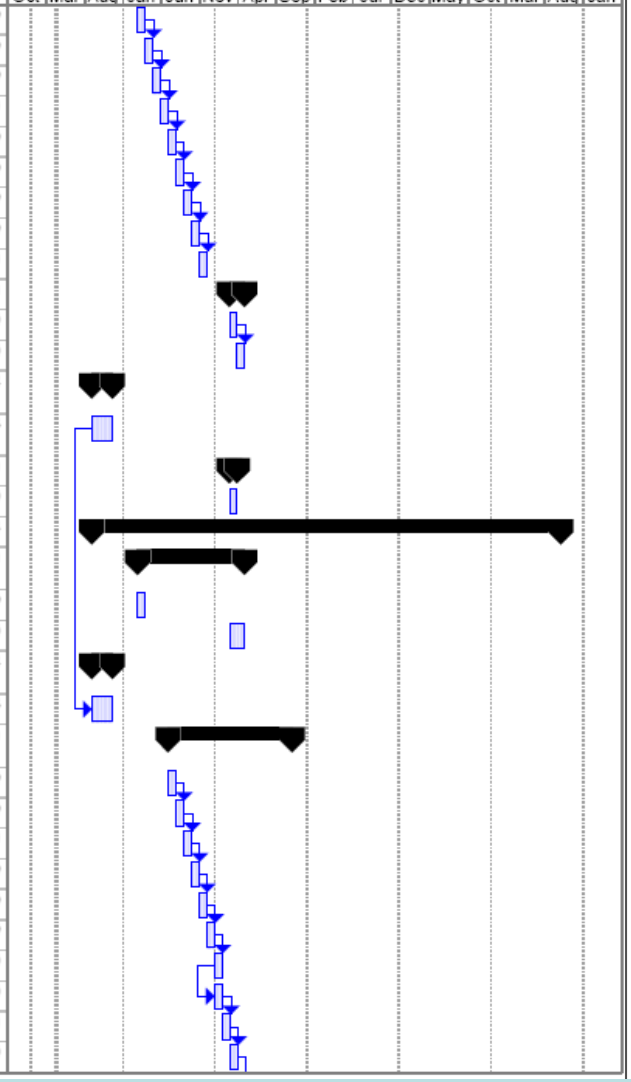
Schedule

ID	Nome da tarefa	Duration	Start	Finish
1	**CAR/SAM Interconection Plan**	**1425 days**	**Mon 21/04/08**	**Fri 04/10/13**
2	**Plan Approval**	**160 days**	**Mon 21/04/08**	**Fri 28/11/08**
3	Plan Presentation in the 1ª GT CNS/ATM SAM-ATM/CNS/IG 1 Meeting	5 days	Mon 21/04/08	Fri 25/04/08
4	Plan Presentation ATM/CNS/SG/6	5 days	Mon 30/06/08	Fri 04/07/08
5	Plan presentation in the GREPECAS Meeting	5 days	Mon 13/10/08	Fri 17/10/08
6	CAR/SAM interconnection plan Approval	30 days	Mon 20/10/08	Fri 28/11/08
7	Project Managing Board Creation	90 days	Mon 01/12/08	Fri 03/04/09
8	**Project Organization**	**22 days**	**Mon 06/04/09**	**Tue 05/05/09**
9	Managing plan	22 days	Mon 06/04/09	Tue 05/05/09
10	Communication Plan	22 days	Mon 06/04/09	Tue 05/05/09
11	Human resources Plan	22 days	Mon 06/04/09	Tue 05/05/09
12	Cost Plan	22 days	Mon 06/04/09	Tue 05/05/09
13	Risk Assesment Plan	22 days	Mon 06/04/09	Tue 05/05/09
14	Escope Managing Plan	22 days	Mon 06/04/09	Tue 05/05/09
15	Quality plan	22 days	Mon 06/04/09	Tue 05/05/09
16	Procurement and Acquisition plan	22 days	Mon 06/04/09	Tue 05/05/09
17	**Plan execution**	**1330 days**	**Mon 01/09/08**	**Fri 04/10/13**
18	STARTUP MEETING	2 days	Mon 02/03/09	Tue 03/03/09
19	**Coordination Meetings**	**940 days**	**Fri 04/09/09**	**Thu 11/04/13**
20	1 Coordination Meeting	2 days	Fri 04/09/09	Mon 07/09/09
21	2 Coordination Meeting	2 days	Thu 11/03/10	Fri 12/03/10
22	3 Coordination Meeting	2 days	Wed 15/09/10	Thu 16/09/10
23	4 Coordination Meeting	2 days	Tue 22/03/11	Wed 23/03/11
24	5 Coordination Meeting	2 days	Mon 26/09/11	Tue 27/09/11
25	6 Coordination Meeting	2 days	Fri 30/03/12	Mon 02/04/12
26	7 Coordination Meeting	2 days	Thu 04/10/12	Fri 05/10/12
27	8 Coordination Meeting	2 days	Wed 10/04/13	Thu 11/04/13
28	**Institutional/Legal Documents Creation**	**120 days**	**Mon 02/03/09**	**Fri 14/08/09**
29	Responsability definition over Shared Resources	22 days	Mon 02/03/09	Tue 31/03/09
30	Operational Agreements Between States	60 days	Mon 02/03/09	Fri 22/05/09
31	Surveilance Area definition to be shared	90 days	Mon 02/03/09	Fri 03/07/09
32	Security Plan	120 days	Mon 02/03/09	Fri 14/08/09
33	**Flight Plan Interconection Implementation**	**434 days**	**Mon 01/09/08**	**Thu 29/04/10**
34	**Flight Plan interconnection using OLDI**	**304 days**	**Mon 02/03/09**	**Thu 29/04/10**
35	**First Phase**	**198 days**	**Mon 02/03/09**	**Wed 02/12/09**



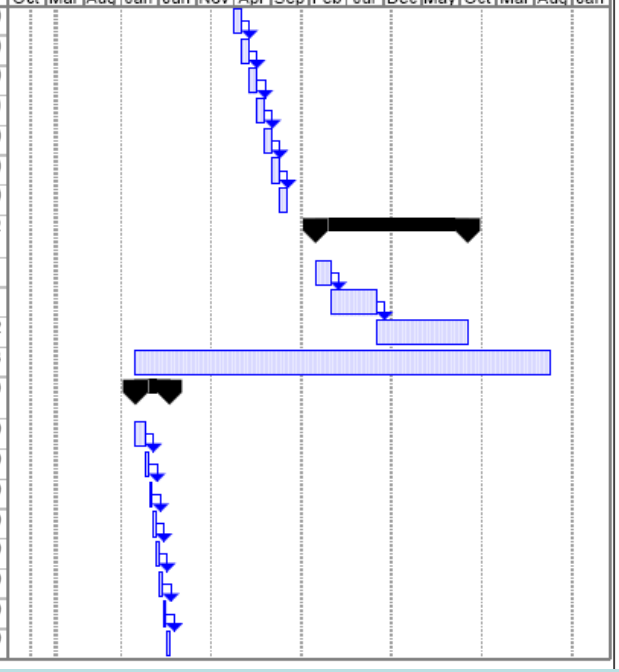
Schedule

ID	Nome da tarefa	Duration	Start	Finish
36	EZEIZA-MONTEVIDEO	22 days	Mon 02/03/09	Tue 31/03/09
37	EZEIZA-CORDOBA	22 days	Wed 01/04/09	Thu 30/04/09
38	EZEIZA-SANTIAGO	22 days	Fri 01/05/09	Mon 01/06/09
39	BOGOTÁ-GUAYAQUIL	22 days	Tue 02/06/09	Wed 01/07/09
40	BOGOTÁ-PANAMÁ	22 days	Thu 02/07/09	Fri 31/07/09
41	BOGOTÁ-BARRANQUILHA	22 days	Mon 03/08/09	Tue 01/09/09
42	BARRANQUILHA-PANAMÁ	22 days	Wed 02/09/09	Thu 01/10/09
43	SANTIAGO-CORDOBA	22 days	Fri 02/10/09	Mon 02/11/09
44	PANAMÁ-CENAMER	22 days	Tue 03/11/09	Wed 02/12/09
45	**Second Phase (With Brazil)**	**44 days**	**Mon 01/03/10**	**Thu 29/04/10**
46	CURITIBA-URUGUAI	22 days	Mon 01/03/10	Tue 30/03/10
47	AMAZÔNICO-BOGOTÁ	22 days	Wed 31/03/10	Thu 29/04/10
48	**Flight Plan interconnection using Doc 4444 (CDN, LAM,ACP)**	**60 days**	**Mon 01/09/08**	**Fri 21/11/08**
49	MAIQUETIA - AMAZONICO Interconnection Comissioning	60 days	Mon 01/09/08	Fri 21/11/08
50	**Flight Plan interconnection using AIDC**	**22 days**	**Mon 01/03/10**	**Tue 30/03/10**
51	BRASIL-ARGENTINA	22 days	Mon 01/03/10	Tue 30/03/10
52	**Surveillance Data interconnection Implementation**	**1330 days**	**Mon 01/09/08**	**Fri 04/10/13**
53	**Surveillance Data interconnection Implementation using Intercenter ASTERIX 62/63**	**304 days**	**Mon 02/03/09**	**Thu 29/04/10**
54	EZEIZA-MONTEVIDEO	22 days	Mon 02/03/09	Tue 31/03/09
55	BRASIL- MONTEVIDEO	44 days	Mon 01/03/10	Thu 29/04/10
56	**Surveillance Data interconnection Implementation with Proprietary ICD**	**60 days**	**Mon 01/09/08**	**Fri 21/11/08**
57	AMAZONICO-MAIQUETIA	60 days	Mon 01/09/08	Fri 21/11/08
58	**Surveillance Data interconnection Implementation using ASTERIX Radar ICD**	**352 days**	**Wed 01/07/09**	**Thu 04/11/10**
59	EZEIZA-SANTIAGO	22 days	Wed 01/07/09	Thu 30/07/09
60	EZEIZA-CORDOBA	22 days	Fri 31/07/09	Mon 31/08/09
61	EZEIZA- MONTEVIDEO	22 days	Tue 01/09/09	Wed 30/09/09
62	AMAZÔNICO-BOGOTÁ	22 days	Thu 01/10/09	Fri 30/10/09
63	CURITIBA-MONTEVIDEO	22 days	Mon 02/11/09	Tue 01/12/09
64	SANTIAGO-CORDOBA	22 days	Wed 02/12/09	Thu 31/12/09
65	BOGOTÁ-GUAYAQUIL	22 days	Fri 01/01/10	Mon 01/02/10
66	BOGOTÁ-PANAMÁ	22 days	Fri 01/01/10	Mon 01/02/10
67	BOGOTÁ-BARRANQUILHA	22 days	Tue 02/02/10	Wed 03/03/10
68	BOGOTÁ-MAIQUETIA	22 days	Thu 04/03/10	Fri 02/04/10



Schedule

ID	Nome da tarefa	Duration	Start	Finish
69	BOGOTA-LIMA	22 days	Mon 05/04/10	Tue 04/05/10
70	PANAMÁ-CENAMER	22 days	Wed 05/05/10	Thu 03/06/10
71	CORDOBA-EZEIZA	22 days	Fri 04/06/10	Mon 05/07/10
72	MAIQUETIA-BARRANQUILHA	22 days	Tue 06/07/10	Wed 04/08/10
73	BARRANQUILHA-PANAMÁ	22 days	Thu 05/08/10	Fri 03/09/10
74	BARRANQUILLA-MAIQUETIA	22 days	Mon 06/09/10	Tue 05/10/10
75	MAIQUETIA-PIARCO	22 days	Wed 06/10/10	Thu 04/11/10
76	**Surveillance Data interconnection Implementation using RADNET for the CAR/SAM Region**	**440 days**	**Tue 01/03/11**	**Mon 05/11/12**
77	Specification	44 days	Tue 01/03/11	Fri 29/04/11
78	Acquisition	132 days	Mon 02/05/11	Tue 01/11/11
79	Installation	264 days	Wed 02/11/11	Mon 05/11/12
80	Telecommunication infrastructure Coordination	1200 days	Mon 02/03/09	Fri 04/10/13
81	**Surveillance Data interconnection Implementation using SISTRASAG**	**100 days**	**Mon 02/03/09**	**Fri 17/07/09**
82	BRASIL	30 days	Mon 02/03/09	Fri 10/04/09
83	LIMA	10 days	Mon 13/04/09	Fri 24/04/09
84	LA PAZ	10 days	Mon 27/04/09	Fri 08/05/09
85	ASSUNCION	10 days	Mon 11/05/09	Fri 22/05/09
86	GEORGETOWN	10 days	Mon 25/05/09	Fri 05/06/09
87	PARAMARIBO	10 days	Mon 08/06/09	Fri 19/06/09
88	ROCHAMBEAU	10 days	Mon 22/06/09	Fri 03/07/09
89	RESISTENCIA	10 days	Mon 06/07/09	Fri 17/07/09



Agenda

- Activities
- ACC-Amazonico and ACC-Maiquetia Interconnection
- Document Hierarchy
- Radar Interfaces
- System Radar Interfaces
- Flight Plan Interfaces
- Automation Systems
- SICD
- Surveillance interconnection Levels
- Flight Plan interconnection Levels
- Interconnection Plan
- Schedule

Objectivo

La interconexión de sistemas automatizados de las Instalaciones de Control de Tránsito Aéreo en las Regiones CAR/SAM tiene el objetivo de:

- establecer la transmisión automatizada de información de planes de vuelo y de vigilancia de los vuelos que están en transición desde uma FIR a otra adyacente
- mejorar el proceso de coordinación de control de tránsito aéreo de vuelos entre los Centros de Control de Tránsito Aéreo afectados.

CAR/SAM Automated ACC Interconnection Plan