

**INTERNATIONAL CIVIL AVIATION ORGANIZATION  
South American Regional Office**

**UNDP/ICAO REGIONAL PROJECT RLA/98/019  
IMPLEMENTATION OF SAM DIGITAL NETWORK (REDDIG)**

**FOURTH MEETING OF THE COORDINATION COMMITTEE**

(Lima, Peru, 30 – 31 January 2003)

Agenda item 2: **Report of project activities**

(Paper presented by ICAO)

Summary

This working paper, related to agenda item 2, presents information about the activities executed up to date since the Third Meeting of the Coordination Committee of the REDDIG, carried out from 4 to 7 November 2002, in Lima, Peru, in the ICAO Regional Office.

**1. Activities carried out**

**1.1. Follow-up to customs clearance of equipment**

1.1.1. Follow up was given to customs clearance of equipment, giving special attention to the customs clearance of Colombia and Ecuador equipment.

1.1.2. Despite the attention given to follow up of customs clearance process of Ecuador and Colombia equipment, these could not be available in the time planned, reason for which it was necessary to re-programme the installation activities with the contractor. The equipment of Colombia was cleared in two stages, reason why the power distribution board was installed in a later date to the node installation.

1.1.3. Up to date all the equipment is cleared from customs, with the exception of the additional equipment purchased for Manaus interfaces, which has been hired in a different scheme.

1.1.4. Table No. 1 of Appendix A presents information related to the item of customs clearance of the REDDIG equipment.

## **1.2. Operation licences of the REDDIG nodes**

1.2.1. The situation about the Operation licences is being showed in Table No. 3 of Appendix A. The situation therein indicated does not present changes regarding the situation presented in RCC/3 Meeting.

## **1.3. Line-Up of REDDIG nodes with PanamSat**

1.3.1. During the installation process, the Line-Up of the following nodes was satisfactorily effected with PanamSat: Ezeiza (SAEZ), Montevideo (SUMU), Santiago (SCEL), La Paz (SLLP), Asunción (SGAS), Lima (SPIM), Maiquetía (SVMI), Georgetown (SGYC), Paramaribo (SMP), Cayenne (SOCA), Curitiba (SBCT) and Recife (SBRF). The Line-Up of the nodes of Manaus (SBMN) and Guayaquil (SEGU) is still pending since the installation of these nodes has not been completed.

1.3.2. It could be observed in the installation process that the satellite track in many cases provides an additional power margin of 3db in the REDDIG nodes, which will permit a more ample expansion of the network capacity as well as the possibility of optimising the use of the rented bandwidth.

1.3.3. Due to a fault in the Montevideo antenna polarizer, the transmission of this node was interrupted with the purpose of not interfering with other users of PanamSat. According to information provided by the contractor, in the week of 13 to 19 January 2003, SEEE personnel would be solving this problem.

## **1.4. Follow up of FIR Amazonica implementation**

1.4.1. According to what was indicated by Brazil in the RCC/3, the ACC of Belem should be presently operating in the FIR Amazonica building in Manaus. It is expected that the Brazil delegation could inform to the meeting about the integration of the ACCS of Belem and Porto Velho in the FIR Amazonica building in Manaus.

## **1.5. Training courses**

1.5.1. Follow up was given to all the previous aspects to the development of the training courses. In this regard, the texts of the training programme, as well as the list of participants and other related items were coordinated with SEEE, while resources necessary to impart the courses were coordinated with the sponsoring countries, as well as the information related to hotel bookings, which was distributed to the States. Likewise, the submission of pending documentation for granting fellowships was coordinated with the States; and fellowships coordinated with the UNDPs; and fellowships granted were opportunely communicated to the States.

1.5.2. Despite of delays from the States regarding the information required for the fellowships granting these could be processed in time. However, Brazil still has pending the submission of the data sheets of its participants to the REDDIG training course. This information is not required for processing the fellowships but due to a contractual requirement.

1.5.3. Timely information was provided regarding facilities and available services in the places where it was agreed to carry out the training courses of the REDDIG. The definite places for dictating the courses were Bogotá, for the course in Spanish, and Recife for the course in English.

1.5.4. While this working paper was being elaborated, the training course in Spanish was being carried out in Bogotá City, Colombia, with the participation of fellowships from Argentina, Bolivia, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay and Venezuela.

1.5.5. The REDDIG training course consists of two differentiated parts, one is focussed to provide the REDDIG communications bases, structure and composition; the other is oriented to the REDDIG equipment, covering theoretical as well as practical aspects. Since not all the participants to the training courses have the same level of knowledge and experience regarding the different systems of the REDDIG (IP networks, frame relay, networks convergence, satellite networks, management systems), the training programme had to include an important amount of material and training hours dedicated to provide the bases on which the telecommunications operations systems of the REDDIG are based. Hardly could the components and maintenance of the REDDIG be interpreted and explained without these bases.

1.5.6. The course is being developed through presentations assisted with multimedia aids. Study material consisted of written texts and CDs distributed to students, as well as of the analysis of additional subjects developed in classes and of the equipment technical manuals.

1.5.7. ICAO has taken in consideration the requests of different administrations regarding to extend the coverage of the course to a larger number of participants. In this regard, ICAO is studying the possibility of carrying out a course in one of the NCCs during the first half of the present year. Practical experience with NCC /NMS system as well as basic instruction about the node would be provided in this course. The administrations would have to assume the cost of air tickets and perdiems of the participants to the course.

## **1.6. Follow up of the installation of the power distribution boards (PDB)**

1.6.1. According to information received, all the power distribution boards would have been already installed, with the exception of the ones of Manaus and Guayaquil, of which no information is available; and Venezuela, which has informed that the installation is presently in process.

1.6.2. The project provided assistance to the CAA of Uruguay regarding the installation of the power distribution board. Likewise, additional information was provided to the CAA of Brazil for the installation of the power distribution boards. Table No. 2 of Appendix A of this working paper presents the information about the status of the installation of the power distribution boards.

## **1.7. Follow up of the installation of the uninterrupted power system**

1.7.1. According to information received, all the REDDIG nodes, with the exception of the nodes of Ecuador, France and Venezuela, are being fed with uninterrupted power provided by the UPS systems of the CAA or by the UPS provided by the REDDIG Project (Guyana and Suriname).

1.7.2. Regarding Ecuador, France and Venezuela, situation will be the following: In Ecuador, the REDDIG equipment (IDU) has not yet been installed (date planned for installation 14 January 2003); France has informed that for the new UPS, the installation would be completed during the week of 13 to 19 January 2003; and Venezuela has informed that the UPS for the REDDIG and the installation of the power distribution board is in process of purchase.

## **1.8. Installation of the IDU equipment of the REDDIG**

1.8.1. Regarding this issue, the project gave permanent follow up to the installation process coordinated with the contractor and the counterparts.

1.8.2. The installation of the equipment according to the PMP V5 was initiated on 28 October 2002 with the Ezeiza node, and installation activities were suspended on 21 December 2002, after the installation of the Recife node. During this period, 13 of the 15 REDDIG nodes were installed; the installation of the Guayaquil (SEGU) y Manaus (SBMN) nodes was pending principally due to, first, customs clearance problems, and, second, due to the delivery of the additional equipment purchased.

1.8.3. As a consequence of the delays in customs clearance process of the equipment of some nodes, the installation programme PMP V5 had to be adjusted according to the development of customs clearance process of the equipment of the REDDIG nodes. Considering that the installation of the node of Manaus (SBMN) would be incomplete and, therefore, a second visit was required to complete its installation, it was considered convenient to postpone the installation of the Manaus node and to continue with the installation of the Guayaquil (SEGU) node after the installation of the Recife node; however, this activities could not be developed during 2002.

1.8.4. One of the most important problems in the follow-up of the installation activities was due to year-end holidays, period during which it was not possible to establish an effective contact with all the CAAs and with the contractor. It is important to precise that the information herein presented is the result of information provided by the counterparts and the contractor.

1.8.5. The project visited the nodes of SAEZ and SUMU. The visit was carried out after the installation of the nodes had been finalized. During the visit, technical aspects related to the installation were coordinated with SEEE, and assistance was provided to the States as necessary. The failure of a MODEM and SSPA in Ezeiza was detected during the visit, reason for which a preliminary coordination and visit to UNDP was done with a view of preparing the process of returning the material to factory.

1.8.5.1. Voice circuits operation was verified. Functional tests were carried out from the maintenance terminal with subscribers of the Ezeiza PABX, with the maintenance terminal of Santiago and Montevideo.

- 1.8.5.2. AFTN functional tests were carried out between Ezeiza and Santiago de Chile, verifying the service normal operation. Presently, due to a failure in the link rented to PTT of Argentina and Chile, REDDIG is providing the circuit for AFTN information transportation between switches of Ezeiza and Santiago.
- 1.8.5.3. The radar circuit SAEZ-SUMU was not implemented due to lack of signal difusers and auxiliary inputs in the equipment of the CAA in Montevideo.
- 1.8.5.4. Assistance to and coordination with the ACC of SUMU was provided regarding the configuration of VCSS and PABX circuits to be connected to the REDDIG, likewise connection of the RADAR circuit was coordinated, for which the CAA should install a diffuser and a switch for the radar signal.

1.8.6. The installation present situation is the following: the nodes of Ezeiza (SAEZ), Santiago (SCEL), Montevideo (SUMU), Asuncion (SGAS), La Paz (SLLP), Lima (SPIM), Maiquetía (SVMÍ), Bogotá (SKED), Curitiba (SBCT), Recife (SBRF), Georgetown (SYGC), Paramaribo (SMPM) and French Guyana (SOCA) are already installed; the nodes of Guayaquil (SEGU) and Manaus (SBMN) have not been installed. The installation of SEGU y SBMN is planned for January 2003, and it is expected that SEEE, after installing IDU in the nodes and concluding the equipment burn-in period, finishes the installation programme of the nodes with the solution of the detected problems detected before the PSAT. The testing programme of PSAT is planned for initiation during the first week of February 2003.

1.8.7. The IDU installation and the line-up of the station were carried out by SEEE in approximately 6 days, as initially planned. However, as stated in above paragraph, SEEE should carry out complementary works, which will be detailed below, to finalize the nodes installation.

1.8.8. With relation to the installed equipment, SEEE should have ready the following: in Ezeiza (SAEZ), to complete the GPS installation and replace a SSPA and satellite MODEM; in Montevideo (SUMU), to solve the problem of the antenna polarizer; in La Paz, to solve the problem associated with the VSAT terminal and the dial-up MODEM; in Santiago de Chile (SCEL), to replace a Linkway MODEM; In Lima (SPIM), to complete the GPS installation and to correct the numeration plan of the voice network; in Asuncion (SGAS), to solve the problem associated with the VSAT terminal; in Bogotá (SKED), to configure the voice digital interfaces; in Recife (SBRF), to replace a Linkway MODEM and the NMS printer; in Guyana (SYGC), to replace one satellite MODEM; and in Paramaribo, to replace a LNB. In SOCA, the node is under observation since the CAA has not yet completed the installation of the UPS and the cut offs observed in the satellite link could be due to power faults, or to the same installation process of the equipment of the CAA in the REDDIG node.

1.8.9. SEEE should also include drain in the principal reflector of the antennas to avoid the accumulation of water in the reflector due to the rain.

1.8.10. It is expected that SEEE carries out the activities indicated in above paragraph before the date planned to initiate the provisional acceptance test (PSAT). Likewise, it is being expected that SEEE forward the documents of installation that should have been completed during the installation of the nodes.

1.8.11. ICAO has been coordinating with UNDPs and CAAs the re-exportation to factory of the parts found to be defective during the process of installation. Up to date re-exportation in Argentina, Chile

and Recife has already been arranged and solved; the re-exportation of defective parts in Guyana and Paramaribo would be solved nearly.

1.8.12. With relation to ACC circuits in the CAA of the installed REDDIG nodes, the situation would be the following:

1.8.13. Voice circuits: In Ezeiza (SAEZ), basically, it is missing to do the crossing between the REDDIG equipment and the PABX circuits; in Montevideo (SUMU), it is missing to programme the VCSS and PABX, to identify the new circuits in the MDF and to do the crossing between the equipment of the REDDIG, the PABX and VCSS; in Santiago de Chile (SCEL), it is missing to fit out the programming of the PABX and to do the crossing of the circuits between the REDDIG equipment and the PABX; in Asuncion (SGAS), it is missing to carry out the tests with the ACC equipment; in La Paz, it is missing to install the new PABX purchased recently by the ACC, to programme the PABX, to identify the new circuits in the MDF and to do the crossing between the REDDIG and the PABX; in Lima (SPIM), it is missing to modify PABX programming; in Maiquetía (SVMÍ), it is missing to programme the VCSS and PABX, to identify the new circuits and to do the crossing between the REDDIG equipment and the VCSS; in Bogotá (SKED), SEEE should configure the voice interfaces and, in the equipment of the CAA, the new numeration should be programmed; in Curitiba (SBCT) and Recife (SBRF), it is missing to modify the PABX programming; in Guyana (SYGC), installation is completed; in Suriname (SMPM), no detailed information is available, but it has been suggested by ICAO the connection of the REDDIG to the VCSS should be done; in Cayenne (SOCA), to connect the VCSS and PABX to the REDDIG the amplification of the optic fibre was planned, which should have been completed.

1.8.14. AFTN circuits: In general the correct operation of the asynchronous circuits was verified in all the installed nodes, with the exception of Montevideo (SUMU) due to the lack of additional circuits in the AFTN Switch, and, in Asuncion, since no V 24 interface was available. In both cases, solutions were coordinated with the counterparts. With regard to the X 25 circuits, circuits are being presently coordinated between Bogotá, Guayaquil and Lima to do a test during the execution of the PSATs, and later implementation of the circuits, if this is the case. Likewise, it is convenient to indicate that the Administration of Argentina and Chile are operating their traffic through the REDDIG.

1.8.15. RADAR circuits: only the RADAR data circuit SAEZ-SUMU would be implemented. In the other REDDIG nodes, the circuits to do the tests were not provided to SEEE. This is due, principally, to the fact that the equipment is still in guarantee; however, this has not permitted to verify the operation of the RADAR protocols in the REDDIG.

1.8.16. Most of the activities above indicated, related to the circuits connected to the REDDIG, depend of the CAA. In this regard, it is expected that the CAAs could complete the execution of the preparatory activities in their equipment before that the second mission of SEEE is concluded and / or before PSATs are initiated.

## **1.9. Acceptance tests**

1.9.1. In the last week of December 2002, the contractor forwarded the provisional acceptance tests protocol in site. After doing the corresponding comments to the document elaborated by SEEE, we are awaiting that the contractor forward the updated version of the protocol and the requested complementary documentation.

## **1.10. REDDIG WEB page**

1.10.1. The REDDIG WEB page is presently active and some States have applied to have access to its content. As it was indicated in the RCC/3 meeting, access has only been provided to counterparts, or persons that would have been authorized by the counterpart..

1.10.2. The WEB page includes, principally, the following: technical documentation of the nodes, the TSD, follow-up tables and updated programme management plan.

## **2. Suggested action**

2.1 The meeting is invited to take note of the information herein presented and to update the tables of the working paper.

## Appendix A

**TABLES ON PRESENT SITUATION OF THE PROJECT  
(to 21 January 2003)**

Table No 01: Situation of the IDU equipment

Estado	Nodo	Embarque en Aduanas	Proceso de Internamiento		Entrega		Instalación	
			en proceso	listo	notificado	listo	en proceso	listo
Argentina	SAEZ	x	x	x	x	x	x	x
Bolivia	SLLP	x	x	x	x	x	x	x
Brasil	SBCT	x	x	x	x	x	x	x
Brasil	SBMN	x	x	x	x	x	x	x (2)
Brasil	SBRF	x	x	x	x	x	x	x
Chile	SCEL	x	x	x	x	x	x	x
Colombia	SKED	x	x	x	x	x	x	x
Ecuador (1)	SEGU	x	x	x	x	x		
Francia	SOCA	x	x	x	x	x	x	x
Guyana	SYGC	x	x	x	x	x	x	x
Paraguay	SGAS	x	x	x	x	x	x	x
Perú	SPIM	x	x	x	x	x	x	x
Suriname	SMPM	x	x	x	x	x	x	x
Uruguay	SUMU	x	x	x	x	x	x	x
Venezuela	SVMI	x	x	x	x	x	x	x

**Notas:**

- (1) The effective delivery of the Ecuador equipment was 3 December 2002. The date planned for initiation of installation works of the Guayaquil node is 14 January 2003.
- (2) The transportation and customs clearance of the equipment is in charge of the CAA.

**Table No 02: Situation of the shipment of power distribution boards:**

Estado	Nodo	Embarque En Aduana	Proceso de Internación		Entrega		Instalación	
			en proceso	listo	notificado	listo	en proceso	listo
Argentina	SAEZ	x	x	x	x	x	x	x
Bolivia	SLLP	x	x	x	x	x	x	x
Brasil	SBCT	x	x	x	x	x	x	
Brasil	SBMN	x	x	x	x	x	x	
Brasil	SBRF	x	x	x	x	x	x	
Chile	SCEL	x	x	x	x	x	x	x
Colombia	SKED	x	x	x	x	x	x	x
Ecuador	SEGU	x	x	x	x	x	x	
Francia	SOCA	x	x	x	x	x	x	
Guyana	SYGC	x	x	x	x	x	x	x
Paraguay	SGAS	x	x	x	x	x	x	x
Perú	SPIM	x	x	x	x	x	x	x
Surinam	SMPM	x	x	x	x	x		
Uruguay	SUMU	x	x	x	x	x	x	x
Venezuela	SVMI	x	x	x	x	x	x	x

Table No 03: Situation of the licenses

ESTADO	NODES	FORMATO DE LICENCIA PRESENTADO A OFICINA DEL PROYECTO		FORMATO DE LICENCIA PRESENTADO AL ENTE REGULADOR PARA APROBACIÓN		INFORMACIÓN ADICIONAL SOLICITADA A LA OFICINA DEL PROYECTO		FORMATO DE LICENCIA PRESENTADO AL ENTE REGULADOR PARA APROBACIÓN		COPIA DE LA LICENCIA ENVIADA A LA OFICINA DEL PROYECTO
		REC.	RESP	REC	RESP	REC	RESP	REC	RESP	
Argentina	SAEZ	X	X	X	PENDING	X	X			
Bolivia	SLLP	X	X	X	PENDING	X	X			
Brasil	SBMN	X	X	X						
Brasil	SBRF	X	X	X						
Brasil	SBCT	X	X	X						
Chile	SCEL	X	X	X	X	NA	NA	NA	NA	X
Colombia	SKED	X	X	X	X	X	X	X	X	X
Ecuador	SEGU	X	X	X	PENDING	X	X	X		
Francia	SOCA	X (2)	X							
Guyana	SYGC	X	X	X	X	X (1)	X (1)	NA	NA	X (1)
Paraguay	SGAS			X	PENDING	X	X			
Peru	SPIM	X	X	X						
Suriname	SMPM									
Uruguay	SUMU	X	X	X	APPROVED	NA	NA	NA	NA	X
Venezuela	SVMI	X	X	X	PENDING	X	X	X		

**Legend**

NA: Not Applicable

**Notes:**

- (1) Updating of the license  
(2) France is coordinating directly with SEEE

Table No. 04: Situation of the requirements for participating in the training courses

País	Nodo	Participantes Curso Nivelación CEA Bogota - Colombia	Participantes Curso SEEE Bogota-Colombia	Participantes Curso SEEE Recife-Brasil	OACI Formulario de Candidatura para una Beca	Examen Médico
Argentina	SAEZ	No	Javier Schenk Marcelo Torres	NA	Ok Ok	Ok Ok
Bolivia	SLLP	No	Hugo Balderrama Hernan Tito	NA	Ok Ok	Ok Ok
Brasil (1)	SBMN	No	NA	Paulo de Santa Clara Ramos Jr. Stenio Ramos Medeiros Gonçalves	NA	NA
Brasil (1)	SBRF	No	NA	Edilson Jose de Lima Arlindo Ferreira Jr.	NA	NA
Brasil (1)	SBCT	No	NA	José Luciano de Oliveira José Roberto Furtado de Medeiros	NA	NA
Chile	SCEL	No	Eduardo Demanet Christian Vergara	NA	Ok Ok	Ok Ok
Colombia	SKED	NA	Carlos Mayorga Ciro Obdulio Sua	NA	NA	NA
Ecuador	SEGU	Raúl Avellan Oña Nancy Tapia Yagual Alejandro Cepeda Chafla	Raul Avellan Oña Nancy Tapia	NA	Ok Ok NA	Ok Ok NA
Guyana	SYGC	No	NA	Sukhdeo Hardat Harnaraine V.Dass	Ok Ok	Ok Ok
French Guyana	SOCA	No	NA	Alain Burtin Armando Rodriguez	Ok Ok	Ok Ok
Paraguay	SGAS	Rufino Brizuela Alcides Rabito	Rufino Brizuela Alcides Rabito	NA	Ok Ok	Ok Ok
Peru	SPIM	No	José Luis Paredes Mario Kuan	Javier Salazar	Ok Ok Financiado por CAA	Ok Ok NA
Surinam	SMPM	No	NA	Martosowito Rudi Maharban Rabindre	Ok Ok	Ok Ok
Uruguay	SUMU	Miguel Vera Wilson Pelayo	Miguel Vera Wilson Pelayo	NA	Ok Ok	Ok Ok
Venezuela	SVMI	Vicente Fiore Fedullo Ruben Herde Canelon	Vicente Fiore Fedullo Ruben Herde Canelon	NA	Ok Ok	Ok Ok

**Legend:**

NA: Not Applicable

**Note:**

(1) The sponsoring countries should forward to the Project Office the Data Sheets of their delegates.

Table No. 05: Status of the uninterrupted power systems in the REDDIG nodes

ESTADO	NODO	MARCA/MODELO	Potencia Salida (KVA)			Salida Configuración	Líneas de Salida	Salida Voltaje L-N (VAC)	Salida Voltaje L-L (VAC)	Salida Frecuencia (Hz)	tiempo de protección (minutos)
			MAX (KVA)	Load %	PF						
Argentina	SAEZ	BEST FERRUPS FD Series	7	50	0.80	Monofásico	L1-N	220V		50	10
Bolivia	SLLP	SOLID STATE SE 3010 NC	10	30	0.80	Monofásico	L1-N	220V		50	20
Brasil	SBMN	POWERWARE DUAL	500	TBD	0.80	Trifásico Estrella	L1-L2-L3-N	220V	380V	60	20
Brasil	SBCT	POWERWARE 9305 DUAL	40	40	TBD	Trifásico Estrella	L1-L2-L3-N	220V	380V	60	25
Brasil	SBRF	SIEMENS B32 DUAL	220	30	0.80	Trifásica Estrella	L1-L2-L3-N	220V	380V	60	30
Colombia	SKED	MITSUBISHI 9100	100	70	0.90	Trifásico Estrella	L1-L2-L3	120	210	60	20
Chile	SCEL	ONDINE EDP70	30	30	0.98	Trifásico Estrella	L1-L2-L3-N	220	380	50	60
Ecuador	SEGU	POWERWARE 9150	8	25	0.95	Bifásico	L1-N-L2	120	208	60	10
Francia	SOCA	TBD (1)				Monofásico	L1-N	230		50	10
Guyana	SYGC	POWERWARE 9170	18	20	0.86	Monofásico	N-L1-L2	120	208	60	(2)
Paraguay	SGAS	POWERWARE PRESTIGE 6000	6			Monofásico	L1-N	220		50/60	05
Perú	SPIM	LIEBERT AP362	65	43	0.80	Trifásico Estrella	L1-L2-L3	126	220V	60	60
Surinam	SMPM	POWERWARE 9170 (2)									
Uruguay	SUMU	SIEMENS MASTERGWARD S5260	48	50%	0.80	Trifásico Estrella	L1-L2-L3-N	220	380V	50	15
Venezuela	SVMI	TBD (2)									

## Notes:

- (1) France has informed that they will rent an UPS to feed the REDDIG node while the installation of the UPS being purchased is concluded.
- (2) Pending information.
- (3) UPS supplied by SEEE.

**Table No 6: Digital circuits of the backup network**

<b>ESTADO</b>	<b>NODO</b>	<b>ISDN</b>	<b>DIGITAL LEASED LINE</b>
<b>Argentina</b>	<b>SAEZ</b>	<b>BRI</b>	
<b>Bolivia</b>	<b>SLLP</b>	<b>NO</b>	<b>SLLP-SAEZ (1)</b>
<b>Brasil</b>	<b>SBCT</b>	<b>BRI</b>	
<b>Brasil</b>	<b>SBMN</b>	<b>PRI</b>	
<b>Brasil</b>	<b>SBRF</b>	<b>BRI</b>	
<b>Chile</b>	<b>SCEL</b>	<b>NO</b>	<b>SCEL-SAEZ</b>
<b>Colombia</b>	<b>SKED</b>	<b>BRI</b>	
<b>Ecuador</b>	<b>SEGU</b>	<b>NO</b>	<b>SEGU-SKED (1)</b>
<b>Francia</b>	<b>SOCA</b>	<b>BRI</b>	
<b>Guyana</b>	<b>SYGC</b>	<b>NO</b>	<b>SYGC-SMPM (1)</b>
<b>Paraguay</b>	<b>SGAS</b>	<b>NO</b>	<b>SGAS-SAEZ (1)</b>
<b>Perú</b>	<b>SPIM</b>	<b>BRI</b>	
<b>Suriname</b>	<b>SMPM</b>	<b>NO</b>	
<b>Uruguay</b>	<b>SUMU</b>	<b>BRI</b>	
<b>Venezuela</b>	<b>SVMI</b>	<b>NO</b>	<b>TBD (1)</b>

**Notes:**

(1) Circuits should be confirmed by the States