



Cuestión 3 del

Orden del Día:

Plan de Contingencia NOTAM, deficiencias AIM y Sistema ICARD

Seguimiento a los problemas observados en el Módulo 5LNC de la base de datos ICARD

(Presentada por la Secretaría)

RESUMEN	
Esta nota de estudio trata sobre los problemas detectados en la base de datos ICARD que respalda la implantación del código único de nombres de cinco letras (5LNC) utilizados para los designadores de puntos significativos (<i>waypoints</i>) estipulados por el Anexo 11 de la OACI y las recomendaciones para su resolución.	
REFERENCIAS	
<ul style="list-style-type: none">• Anexo 11 - <i>Servicios de Tránsito Aéreo</i>• Anexo 15 al Convenio sobre Aviación Civil Internacional• Reuniones Multilaterales SAM/AIM/11	
Objetivos estratégicos de la OACI:	<i>A - Seguridad operacional</i> <i>B - Capacidad y eficiencia de la navegación aérea</i> <i>E - Protección del medio ambiente</i>

1. Antecedentes

1.1 La base de datos ICARD fue establecida en el año 2010, habiéndose puesto a disposición de los Estados a través del Portal OACI. El objetivo de la base de datos es, entre otros, facilitar de manera eficiente y segura la implementación del código de nombres de cinco letras (5LNC) para una correcta planificación de rutas y procedimientos de vuelo, y a la vez apoyar las comunicaciones orales del ATS y la gestión de datos aeronáuticos.

1.2 La Reunión de la SAM/AIM/11 analizó el problema observado en las Bases de Datos del ICARD.

2. Análisis

2.1 La Reunión recordará que la OACI, en marzo de 2017, finalizó la implantación inicial de la nueva plataforma ICARD. El sistema de base de datos ICARD actualizado, al que se puede acceder a través del portal seguro de la OACI, sustituye a la plataforma anterior y satisfará las necesidades de los Estados para apoyar la implantación eficiente y segura de 5LNC únicos.

2.2 La actualización del sistema ICARD reviste suma importancia, ya que el actual incumplimiento a escala mundial de las disposiciones del Anexo 11 - *Servicios de tránsito aéreo*, (Apéndice 2, párrafos 3.1 y 3.4) relativas al carácter único de los 5LNC, continúa creando dificultades que podrían ocasionar problemas relacionados con la seguridad operacional. Se han identificado los siguientes problemas en relación con los 5LNC:

- a) un número significativo de claves duplicadas (incluidas claves en triplicado y cuadruplicado);
- b) la cercanía de códigos con similitud en el sonido o en la misma ruta del plan de vuelo; y
- c) diferencias entre los datos 5LNC registrados en la base de datos ICARD y los que figuran en las publicaciones de información aeronáutica (AIP) nacionales.

2.3 Durante la SAM/AIM/11 había sido analizado el problema originado con la base de datos del ICARD.

2.4 La Secretaría, en la mencionada reunión realizó demostraciones de uso de la plataforma del ICARD, así como recordó a la Reunión las reglas que ayudarán a los Estados a resolver o disminuir los puntos duplicados o de similar fonética, en las proximidades o en la misma ruta, mismas que forman parte de la Carta a los Estados AN 11/45.5-17/101.

2.5 Así mismo, los Estados se habían comprometido a trabajar en la resolución de estos problemas, y presentar algunos Planes de Acción en la reunión SAM/IG/21 o en otros foros.

2.6 Así mismo, la Reunión había recomendado a la Secretaría poner un máximo empeño en realizar un taller sobre el ICARD para todos los involucrados en el uso de esta Base de Datos en el Estado de Brasil.

2.7 Durante el período del 2018 y 2019, la Oficina Regional, al gestionar los códigos ICARD continúa observando dificultades, entre las cuales se puede mencionar:

- a) Los Estados utilizan códigos que no aparecen en los AIP.
- b) Los Estados mantienen códigos en el AIP sin embargo ya no están en uso.
- c) Los Estados publican procedimientos o nuevas rutas utilizando códigos 5LNC pero los mismos aún no han sido validados.
- d) Los códigos 5LNC de waypoints que se encuentran en límites de los FIR, en muchos casos, no coinciden las coordenadas en ambos AIPs.
- e) En ocasiones, los códigos 5LNC solicitados para waypoints de límites de FIR, no son coordinados entre los Estados afectados.
- f) Algunos Estados no evalúan la proximidad de similitud fonética para solicitar los códigos.

2.8 La administración del ICARD en la Sede de la OACI, ha detectado una lista de códigos 5LNC duplicados, cuya lista se adjunta a la NE como **Apéndice A**. La Reunión pudiera instar a los Estados implementar las Reglas de eliminación de los códigos duplicados o triplicados contenidas en el Adjunto a la Carta de los Estados AN 11/45.5-17/101, numeral 2.

2.9 La Reunión pudiera informar de las acciones tomadas para disminuir los problemas observados anteriormente. Adicionalmente, pudiera delinear estrategias para poder subsanar los códigos duplicados, triplicados y otros que aparecen en el Apéndice A, a corto, mediano y largo plazo.

3. **Acción Requerida**

3.1 En base a lo expuesto anteriormente, se invita a la Reunión a:

- a) informar de las acciones tomadas desde la SAM/AIM/11 para resolver los problemas observados con el módulo de los códigos de waypoints que aparecen en la Base de Datos del ICARD;
- b) revisar la información contenida en el Apéndice A;
- c) aplicar, en la medida de lo posible, las recomendaciones de la Secretaría General en relación a la actualización de la base de datos ICARD y la resolución de los 5LNC duplicados;
- d) instar a aquellos Estados que aún no lo han hecho, a actualizar su listado de planificadores responsables;
- e) revisar sus listas de puntos 5LNC, contrastarlos y realizar las enmiendas, si fuesen necesarias; y
- f) comunicar a la Oficina Regional todo comentario e información que permita mejorar las funciones y gestión de la plataforma actualizada ICARD.

APENDICE A / APPENDIX A

LISTADO DE REFERENCIA CÓDIGOS 5LNC DUPLICADOS/REFERENCE LIST OF
DUPLICATED 5LNC CODES

ARGENTINA

5LNC	Count	Countries	Priority
DRAKE	5	Chile/Argentina, Costa Rica (COCESNA), United States of America, United Kingdom, China (Taiwan)	United Kingdom
LANDA	4	Egypt, Honduras (COCESNA), Argentina, China (mainland)/China (Hong Kong)	Argentina
SARGO	4	United States of America, Spain, Argentina/Uruguay (FIR boundary), China (mainland)	Spain
TONAR	4	Australia, Japan, Russian Federation, Argentina/Chile (FIR boundary)	Russian Federation
ESPIN	3	Argentina, Brazil, Spain	To be determined by the 5LNC Duplicate Resolution Rules
LUCIA	3	Argentina, Cuba, Venezuela	Argentina. Cuba if not used by Argentina.
MOCHO	3	United States of America, Argentina, Australia	United States of America
SORTI	3	Russian Federation, Argentina, Australia	Argentina
ALGAR	2	Canada, Argentina	Canada
AMORA	2	Mexico, Argentina	Mexico
ANKAB	2	Argentina, Venezuela	Argentina
ANLUK	2	Argentina, Brazil	Brazil.
ARPAS	2	Argentina, Philippines	Argentina
ASIMO	2	Argentina/Chile (FIR boundary), Japan	Argentina, Chile
BISUL	2	Colombia, Argentina	Colombia
BITAG	2	Bolivia, Argentina	Bolivia (Plurinational State of)
BITIS	2	Argentina, Viet Nam	Argentina
BURSA	2	Argentina, Venezuela	Argentina
CABAL	2	Argentina, Philippines	Argentina
CANAS	2	Costa Rica (COCESNA), Argentina	Costa Rica
CHATO	2	Spain, Argentina	Spain
DABLI	2	Brazil, Argentina	To be determined by the 5LNC Duplicate Resolution Rules
DAMIN	2	Argentina, Australia	Argentina
DIGER	2	Argentina, Australia	Argentina
DOKBA	2	Argentina, Brazil	Argentina

5LNC	Count	Countries	Priority
DOLVA	2	Argentina, Brazil	Argentina
DORVO	2	Uruguay/Argentina (FIR boundary), Brazil	Uruguay/Argentina
ELADA	2	Argentina, Indonesia	Argentina
ENTIS	2	Argentina, Venezuela	Argentina
ESNAM	2	Argentina, Algeria	Argentina
GAVOT	2	Argentina, France (French Guiana)	Argentina
IRAVU	2	Argentina, Senegal	Argentina
IRAXO	2	Brazil, Argentina	Brazil
ISONI	2	Argentina, Brazil	To be determined by the 5LNC Duplicate Resolution Rules
ISTER	2	France/Spain (FIR boundary), Argentina	France/Spain
ISUGU	2	Argentina, Brazil	Argentina
KADAT	2	Russian Federation, Chile/Argentina (FIR boundary)	Russian Federation
KALIM	2	Argentina, Thailand	Argentina
KORGA	2	Argentina, Indonesia	Argentina
KOTES	2	Argentina, Indonesia	Argentina
KOTOL	2	Argentina, Brazil	Argentina
KOVAK	2	France, Argentina	France
KRILL	2	New Zealand/France (French Polynesia) [FIR boundary], Chile/Argentina	New Zealand/France (French Polynesia)
KUBIR	2	Ukraine, Argentina/Paraguay (FIR boundary)	Ukraine
LADER	2	India, Brazil/Argentina	India
LITOK	2	Brazil, Argentina/Chile (FIR boundary)	Brazil
LITOR	2	Turkmenistan, Argentina	Turkmenistan
LOBOS	2	United States of America, Argentina	United States of America
LOMEK	2	Argentina, Venezuela	Argentina
MASPI	2	Argentina, Brazil	Argentina
MORRO	2	Argentina, Australia	Argentina
MOSKA	2	Argentina, Indonesia	Argentina
MULTA	2	Kazakhstan/Russian Federation (FIR boundary), Argentina	Kazakhstan/Russian Federation
NIDBA	2	Argentina, Brazil	Argentina
OPROS	2	Peru, Argentina	Peru
ORABO	2	Argentina, Venezuela	Argentina
OSARI	2	Argentina, Venezuela	Argentina
PADEN	2	Argentina, Australia	Argentina
PEDRO	2	Argentina, Spain	Argentina
PORPA	2	Argentina, China (Hong Kong)	Argentina

5LNC	Count	Countries	Priority
PULKA	2	Cuba/Jamaica (FIR boundary), Argentina	Cuba
PUPSI	2	Argentina, Brazil	Argentina
REDIT	2	Ecuador, Argentina	Ecuador
ROGAS	2	Argentina, Australia	Argentina
SAKSA	2	Argentina, Brazil	Argentina
SIBOL	2	Argentina, Indonesia	Argentina
SIGUL	2	Australia, Argentina	To be determined by the 5LNC Duplicate Resolution Rules
SILUS	2	Argentina, Mongolia	To be determined by the 5LNC Duplicate Resolution Rules
TODES	2	Russian Federation, Argentina	Russian Federation
TOPIL	2	Brazil, Argentina	Brazil
VADON	2	Brazil, Argentina	Brazil
VARES	2	France, Argentina	France
VURAK	2	Argentina, Brazil	Argentina

BRASIL/BRAZIL

5LNC	Count	Countries	Priority
CORAL	7	China (Taiwan), Japan, Australia, Brazil, Cuba, Mexico, Honduras (COCESNA)	Brazil
CEDAR	6	Brazil, United Kingdom, Lebanon, Japan, Australia, China (Hong Kong)	United Kingdom
LUCAS	6	Costa Rica, Netherlands (Netherlands Antilles), Mexico, Brazil, Australia, China (Taiwan).	Netherlands (Netherlands Antilles)
TOMAS	6	Australia, Denmark (Greenland), New Zealand, Brazil, Venezuela, Costa Rica (COCESNA)	Denmark (Greenland)
BRAVO	5	China (Taiwan), India, Syrian Arab Republic, Italy, Brazil	Brazil. To be determined by the 5LNC Duplicate Resolution Rules if not used by Brazil.
CRANE	5	United States of America, Japan, Brazil, Republic of Korea, Australia	United States of America
FRANK	5	Japan, China (Taiwan), United States of America, Brazil, Panama	United States of America
PANDA	5	United States of America, Japan, China (Taiwan), Brazil, Indonesia	United States of America
SAMAR	5	Indonesia, Israel, Spain/Morocco (FIR boundary), Brazil, Mexico	Spain/Morocco
SELVA	5	Venezuela, Ecuador, Brazil, Bolivia, United States of America	United States of America
STONE	5	Japan, Thailand, Brazil, Australia, United States of America	United States of America
ARENA	4	Spain/Morocco (Western Sahara), Brazil, Costa Rica, Japan	Spain/Morocco (Western Sahara)
AVILA	4	Spain, Brazil, United States of America, Philippines	Spain
BACON	4	Brazil, United States, Japan, China (Taiwan)	United States of America
BERTI	4	Algeria, Brazil, United States of America, Australia	United States of America
BLUES	4	United States of America, Brazil, Thailand, Japan	United States of America
CLARK	4	Australia, New Zealand, United States of America, Brazil	United States of America
ESTER	4	Australia, Israel, United States of America, Brazil	United States of America
FLUTE	4	Brazil, United States of America, Thailand, Japan	United States of America
GRACE	4	United States of America, Brazil, Thailand, China (Taiwan)	United States of America

5LNC	Count	Countries	Priority
GROVE	4	New Zealand, United Kingdom, United States of America, Brazil	United Kingdom
JULIA	4	United States of America, Brazil, Japan, Australia	Brazil
MASON	4	Brazil, Australia, Thailand, China (Taiwan)	Brazil
NOBEL	4	Thailand, Indonesia, Japan, Brazil	Brazil
OPERA	4	Thailand, Japan, Spain, Brazil	Brazil. To be determined by the 5LNC Duplicate Resolution Rules if not used by Brazil.
PASTA	4	Australia, China (Taiwan), Pakistan, Brazil	Pakistan
PERLA	4	Brazil, Cuba, El Salvador (COCESNA), Mexico	Brazil
SIMON	4	Brazil, Denmark (Greenland), Australia, Japan	Denmark (Greenland)
TAMAR	4	Venezuela, Israel, Brazil, China (Hong Kong)	Brazil
VERDE	4	Philippines, United States of America, Spain, Brazil	United States of America
ADELA	3	Indonesia, United States of America, Brazil	United States of America
ASTRA	3	Brazil, United Kingdom, Japan	United Kingdom
AUGUR	3	China (Taiwan), United States of America, Brazil	United States of America
BARKA	3	Australia, Algeria, Brazil	Brazil
BASIL	3	Brazil, Japan, Australia	Brazil
BRICK	3	Spain, United States of America, Brazil	Spain
CANOP	3	Japan, Canada, Brazil	Canada
CARDO	3	Brazil, United States of America, Australia	United States of America
CHARA	3	Japan, Brazil, Venezuela	Japan
CIDER	3	Brazil, Japan, Thailand	Brazil
COLOR	3	Brazil, Costa Rica (COCESNA), Japan	Brazil
COVER	3	United States of America, Brazil, Portugal	United States of America
DALMA	3	Venezuela, Brazil, Japan	Brazil
ESPIN	3	Argentina, Brazil, Spain	To be determined by the 5LNC Duplicate Resolution Rules
FLASH	3	China (Taiwan), Brazil, United States of America	United States of America
GEMAS	3	Spain, Malaysia, Brazil/Paraguay	Malaysia
GENUS	3	Brazil, United States of America, China (Taiwan)	United States of America

5LNC	Count	Countries	Priority
GUARI	3	Brazil, Paraguay, Papua New Guinea	Paraguay
HARDY	3	Thailand, Brazil, United Kingdom	United Kingdom
ILTON	3	Russian Federation, United states of America, Brazil	United States of America
IMPEL	3	United States of America, China (Taiwan), Brazil	United States of America
INDIO	3	Costa Rica (COCESNA), Mexico, Brazil	To be determined by the 5LNC Duplicate Resolution Rules
JANES	3	United States of America, Brazil, Costa Rica	United States of America
KENOK	3	Czechia, Haiti, Brazil	Czechia
LANCE	3	Japan, Spain, Brazil	Brazil
LIBRA	3	Thailand, Brazil, United States of America	United States of America
LISBO	3	Brazil, United Kingdom, United States of America	United Kingdom
MAGDA	3	Bolivia, Brazil, Australia	Brazil
MAGNA	3	Brazil, Lybia, Japan	Brazil
MANDU	3	India, Australia, Brazil	Brazil
MARIN	3	Brazil, Japan, Indonesia	To be determined by the 5LNC Duplicate Resolution Rules
MASPU	3	Chile, Brazil, Venezuela	Venezuela
MATRA	3	Brazil, Israel, Indonesia	Brazil
MOSNA	3	Brazil, Cambodia, Colombia	Colombia
NADAR	3	Russian Federation, Brazil, Japan.	Russian Federation. Brazil if not used by Russia.
NAMBI	3	Brazil, Saudi Arabia, Viet Nam	Saudi Arabia
NILON	3	United Kingdom, Brazil, Somalia	United Kingdom
NITRO	3	Thailand, Japan, Brazil	Brazil. To be determined by the 5LNC Duplicate Resolution Rules if not used by Brazil.
PANDI	3	Brazil, Indonesia, Philippines/Viet Nam (FIR boundary)	Brazil
PAPAS	3	Japan, Thailand, Brazil	Japan
PAULA	3	United States of America, Australia, Brazil	United States of America
PERSA	3	Brazil, Australia (2)	Brazil
PONTE	3	Japan, Spain, Brazil	Brazil. To be determined by the 5LNC Duplicate Resolution Rules if not used by Brazil.
RABAN	3	Republic of Korea, Brazil, India/Pakistan (FIR boundary)	India/Pakistan
RAMOS	3	Philippines, Brazil, United States of America	United States of America

5LNC	Count	Countries	Priority
RODRI	3	Belgium, Costa Rica (COCESNA), Brazil	Belgium
RUMBA	3	Thailand, United States of America, Brazil	United States of America
SAMSU	3	Brazil, Panama, Indonesia	Panama
SANKA	3	Cambodia, United States of America, Brazil	United States of America
SERRA	3	Spain, United States of America, Brazil	Spain
SIMEL	3	Indonesia, Peru, Brazil	Brazil
SOFIA	3	Brazil, Paraguay, Syrian Arab Republic	Brazil
TOMBO	3	Brazil, Indonesia, Republic of Korea	Brazil. To be determined by the 5LNC Duplicate Resolution Rules if not used by Brazil.
VANES	3	Greece, Brazil, China (Taiwan)	Greece
VENUS	3	Mexico, Tonga, Brazil	Brazil. To be determined by the 5LNC Duplicate Resolution Rules if not used by Brazil.
WELIN	3	United States of America, United Kingdom, Brazil	United Kingdom
ZORRO	3	Australia, United States of America, Brazil/Colombia (FIR boundary)	United States of America
ABELA	2	Russian Federation, Brazil	Russian Federation
ABUCU	2	Brazil, United States of America	Brazil
ACARI	2	United States of America, Brazil/Guyana (FIR boundary)	United States of America
ADEMI	2	Germany, Brazil	Germany
AGENT	2	United States of America, Brazil	United States of America
AGURI	2	Russian Federation, Brazil	Russian Federation
AKSIN	2	Brazil, Guyana	Brazil
ALBUL	2	Venezuela, Brazil	Brazil
ALGAN	2	Turkey, Brazil	Brazil
ALMAT	2	United States of America, Brazil	United States of America
ANDOR	2	Norway, Brazil	Norway
ANGAS	2	Brazil, Australia	Brazil
ANLUK	2	Argentina, Brazil	Brazil.
ANPIR	2	Brazil/Senegal (FIR boundary), Venezuela	Brazil/Senegal
AROLO	2	Brazil, Bolivia	Brazil
ASGAT	2	Mongolia, Brazil	Brazil
ATARO	2	Brazil, Indonesia	Brazil
ATATU	2	Peru, Brazil/Colombia (FIR boundary)	Peru

5LNC	Count	Countries	Priority
BANGU	2	United States of America, Brazil	United States of America
BARCO	2	Brazil, Republic of Korea	Brazil
BARGE	2	United States of America, Brazil	United States of America
BETAR	2	United Kingdom (Cayman Islands)/Jamaica, Brazil	United Kingdom (Cayman Islands)/Jamaica
BIDEV	2	Brazil, New Zealand	Brazil
BINAS	2	Brazil, Gabon	Brazil
BISSA	2	Algeria, Brazil	Algeria
BIVBI	2	Canada, Brazil	Canada
BLOCK	2	United States of America, Brazil	United States of America
BOMAK	2	Panama, Brazil	To be determined by the 5LNC Duplicate Resolution Rules
BUGAT	2	Brazil, Mongolia	Brazil
BUTRU	2	Brazil, Venezuela	Brazil. Venezuela if not used by Brazil.
BUVIN	2	France (Guyane Française), Brazil	Guyane Française (France)
CALAN	2	France, Brazil	France
CALIF	2	United States of America, Brazil	United States of America
CARAM	2	Brazil, Philippines	Brazil
CARMO	2	Brazil, Philippines	Brazil
CARVA	2	United States of America, Brazil	United States of America
CASTE	2	United States of America, Brazil	United States of America
CHANT	2	United States of America, Brazil	United States of America
CITRA	2	United States of America, Brazil/Bolivia (FIR boundary)	United States of America
CLOSE	2	United States of America, Brazil	United States of America
CLUNG	2	United States of America, Brazil	United States of America
CONDE	2	Brazil, Philippines	Brazil
COSME	2	United States of America, Brazil	United States of America
CROWD	2	United States of America, Brazil	United States of America
CURSE	2	United States of America, Brazil	United States of America
DABLI	2	Brazil, Argentina	To be determined by the 5LNC Duplicate Resolution Rules
DAGEN	2	Chile, Brazil	Chile
DAKAP	2	Brazil, Peru	Brazil
DAKIN	2	Kazakhstan/Russian Federation, Brazil	Kazakhstan/Russian Federation
DANRI	2	Brazil, Philippines	Brazil
DANTU	2	Brazil, Peru	Brazil
DANVA	2	Brazil, Australia	Brazil
DARIO	2	Brazil, Japan	Brazil. Japan if not used by Brazil.
DEMON	2	India, Brazil	India
DENOB	2	Morocco, Brazil	Morocco
DENSE	2	Brazil, United States of America	Brazil

5LNC	Count	Countries	Priority
DEPOT	2	United States of America, Brazil	United States of America
DIANA	2	Brazil, Japan	Brazil
DIKIT	2	Brazil, Venezuela	Brazil
DINER	2	United States of America, Brazil	United States of America
DOGTA	2	Colombia, Brazil	Colombia
DOKBA	2	Argentina, Brazil	Argentina
DOKTO	2	Chile, Brazil	Chile
DOLTO	2	Chile, Brazil	Chile
DOLVA	2	Argentina, Brazil	Argentina
DONGI	2	Viet Nam, Brazil	Viet Nam
DORMI	2	Brazil, Spain	Brazil
DORVO	2	Uruguay/Argentina (FIR boundary), Brazil	Uruguay/Argentina
DOSMA	2	Brazil, Ecuador	Brazil
DUNCE	2	United States of America, Brazil	United States of America
EAGLE	2	Brazil, Australia	Brazil
EDITE	2	United States of America, Brazil	United States of America
EDVAR	2	Colombia, Brazil	Colombia
EGALE	2	United States of America, Brazil	United States of America
ELENA	2	Brazil, Costa Rica (COCESNA)	Brazil
ENLUS	2	Chile, Brazil	Chile
EPDAD	2	India, Brazil	India
EPDAM	2	Australia, Brazil	Australia
EROPA	2	Brazil, Madagascar/Mozambique (FIR boundary)	Brazil
ERVIS	2	India, Brazil	India
ESLOP	2	Brazil, Peru	To be determined by the 5LNC Duplicate Resolution Rules
ESMEL	2	Bolivia, Brazil	Bolivia (Plurinational State of)
EVLUB	2	Colombia, Brazil	Colombia
EVOLO	2	Norway, Brazil	Norway
FLINT	2	United States of America, Brazil	United States of America
FLORI	2	Brazil, Mexico	Brazil
FOSSE	2	United States of America, Brazil	United States of America
FRAIL	2	United States of America, Brazil	United States of America
FRAUD	2	United States of America, Brazil	United States of America
GALES	2	United States of America, Brazil	United States of America
GARCI	2	Venezuela/Colombia (FIR boundary), Brazil	Venezuela (Bolivarian Republic of)/Colombia
GEDOK	2	Colombia, Brazil	Colombia
GENKO	2	Brazil, Japan	Brazil
GIANT	2	Brazil, China (Taiwan)	Brazil

5LNC	Count	Countries	Priority
GIBTA	2	Brazil, Venezuela	Brazil
GIKRO	2	Colombia, Brazil	Colombia
GIRAL	2	Morocco, Brazil	Morocco
GLINT	2	United States of America, Brazil	United States of America
GOMAL	2	Kazakhstan, Brazil	Kazakhstan
GRAVE	2	United States of America, Brazil	United States of America
GRUFF	2	United States of America (U.S. Virgin Islands), Brazil	United States of America
GRUTA	2	Brazil, Mexico	Brazil
HAMBU	2	United States of America, Brazil	United States of America
HASTE	2	United States of America, Brazil	United States of America
HATCH	2	United States of America, Brazil	United States of America
IBAGA	2	Germany, Brazil	Germany
ILNES	2	Peru, Brazil	Peru
ILNOP	2	Colombia, Brazil	Colombia
ILPUR	2	Brazil, Paraguay	Brazil
IMBIS	2	Colombia, Brazil	Colombia
INASU	2	Brazil, Cameroon/Chad/Congo (FIR boundary)	Brazil
IRAXO	2	Brazil, Argentina	Brazil
IRULI	2	Chile, Brazil	Chile
ISEKI	2	Brazil, Japan	Brazil
ISESA	2	Colombia, Brazil	Colombia
ISLIT	2	Brazil, Nicaragua (COCESNA)	Brazil
ISOKO	2	Panama, Brazil	Panama
ISONI	2	Argentina, Brazil	To be determined by the 5LNC Duplicate Resolution Rules
ISUGU	2	Argentina, Brazil	Argentina
ITAMA	2	Venezuela, Brazil	Venezuela (Bolivarian Republic of)
ITAMU	2	Colombia, Brazil	Colombia
ITASU	2	Brazil, Venezuela	Brazil
JAVAN	2	United States of America, Brazil	United States of America
JOUST	2	United States of America, Brazil	United States of America
JUICE	2	United Kingdom (Anguilla)/United States of America (U.S. Virgin Islands), Brazil	Anguilla I. (U.K.)/United States of America
JURIS	2	United States of America, Brazil	United States of America
KAKUD	2	Colombia, Brazil	Colombia
KALAX	2	Brazil, Malaysia	Brazil
KALER	2	Brazil, Chile	Brazil. Chile if not used by Brazil.
KEVER	2	Colombia, Brazil	Colombia
KIKIS	2	Ecuador, Brazil	Ecuador

5LNC	Count	Countries	Priority
KILIS	2	Brazil, Turkey/Syrian Arab Republic (FIR boundary)	Brazil
KODSA	2	Brazil, Bolivia	Brazil
KOMBO	2	Colombia, Brazil	Colombia
KOMLA	2	Peru, Brazil	Peru
KONVO	2	Chile, Brazil	Chile
KOTOL	2	Argentina, Brazil	Argentina
KOTRA	2	Brazil, Republic of Korea	To be determined by the 5LNC Duplicate Resolution Rules
KOVUM	2	Colombia, Brazil	Colombia
LADER	2	India, Brazil/Argentina	India
LARVA	2	United States of America, Brazil	United States of America
LEBON	2	Indonesia, Brazil	Indonesia
LENOX	2	United States of America, Brazil	United States of America
LIMPO	2	Belarus, Brazil/Peru (FIR boundary)	Belarus
LISAN	2	Brazil, Benin	Brazil
LITOK	2	Brazil, Argentina/Chile (FIR boundary)	Brazil
LIVER	2	United States of America, Brazil	United States of America
LOGIR	2	Brazil, Venezuela	Brazil
LOKAR	2	Brazil, Panama	Brazil
LOVIS	2	Romania, Brazil	Romania
LUNAT	2	Ukraine, Brazil	Ukraine
LUPTA	2	Equatorial Guinea, Brazil	Equatorial Guinea
LUVDO	2	Colombia, Brazil	Colombia
MADOK	2	New Zealand, Brazil	New Zealand
MADRE	2	United States of America, Brazil	United States of America
MADRI	2	United States of America, Brazil	United States of America
MALPO	2	Chile, Brazil	Chile
MAMPO	2	Colombia, Brazil	Colombia
MAPMI	2	Colombia, Brazil	Colombia
MARPU	2	Colombia, Brazil	Colombia
MASPI	2	Argentina, Brazil	Argentina
MATEL	2	Bulgaria, Brazil	Bulgaria
MEDAL	2	Italy, Brazil	Italy
MEDIT	2	Brazil, China	Brazil
MEDLE	2	United States of America, Brazil	United States of America
MICAL	2	United States of America, Brazil	United States of America
MICRO	2	United States of America, Brazil	United States of America
MILOG	2	Colombia, Brazil	Colombia
MILTA	2	Latvia, Brazil	Latvia

5LNC	Count	Countries	Priority
MIMER	2	Brazil, Venezuela	Brazil
MITRA	2	United States of America, Brazil	United States of America
MOMVO	2	Ecuador, Brazil	Ecuador
MONIC	2	Australia, Brazil	Australia
MOVER	2	United States of America, Brazil	United States of America
MOVSI	2	Australia, Brazil	To be determined by the 5LNC Duplicate Resolution Rules
MOXEP	2	Ecuador, Brazil	Ecuador
MOXIL	2	Bolivia (Plurinational State of), Brazil	Bolivia (Plurinational State of)
MOXIP	2	Colombia, Brazil	Colombia
MUDAR	2	Brazil, Chile	Brazil
MUDOL	2	Chile, Brazil	Chile
MULUX	2	Colombia, Brazil	Colombia. Brazil if not used by Colombia.
MUMIL	2	Ecuador, Brazil	Ecuador
NACRE	2	Brazil, China (Taiwan)	Brazil
NADIR	2	United States of America, Brazil	United States of America
NAXUP	2	Colombia, Brazil	Colombia
NEBAL	2	Brazil, Chile	Brazil
NEGAR	2	Russian Federation, Brazil	Russian Federation
NEGON	2	Dominican Republic/United States of America (Puerto Rico) [FIR boundary], Brazil	Dominican Republic/United States of America
NEGRA	2	Germany/Switzerland, Brazil	Germany/Switzerland
NEGUS	2	United States of America, Brazil	United States of America
NEKET	2	Latvia/Sweden (FIR boundary), Brazil	Latvia/Sweden
NERVO	2	Spain, Brazil	Spain
NIDBA	2	Argentina, Brazil	Argentina
NIPKA	2	Paraguay, Brazil	Paraguay
NISBO	2	Colombia, Brazil	Colombia
NITER	2	United States of America, Brazil	United States of America
NOISE	2	United States of America, Brazil	United States of America
OBLAD	2	France, Brazil	France
ONDAK	2	Canada, Brazil	Canada
OPABA	2	Australia/Indonesia (FIR boundary), Brazil	Australia/Indonesia
ORATE	2	United States of America, Brazil	United States of America
OSAMU	2	Brazil, Japan	Brazil
PADAM	2	Brazil, Thailand	To be determined by the 5LNC Duplicate Resolution Rules
PADEK	2	Brazil, Australia	Brazil. Australia if not used by Brazil.
PAINT	2	United States of America, Brazil	United States of America

5LNC	Count	Countries	Priority
PALAT	2	Brazil, Thailand	Brazil
PALIO	2	Spain, Brazil	Spain
PANAP	2	Brazil, Japan	To be determined by the 5LNC Duplicate Resolution Rules
PANID	2	Colombia, Brazil	Colombia
PANOK	2	Panama, Brazil	Panama
PANOL	2	Serbia, Brazil	Serbia and Montenegro
PAROL	2	United States of America, Brazil	United States of America
PEDAL	2	United States of America, Brazil	United States of America
PEPER	2	United States of America, Brazil	United States of America
PERNA	2	Brazil, Canada	Brazil
POLAN	2	Brazil, Democratic Republic of the Congo	To be determined by the 5LNC Duplicate Resolution Rules
POPRI	2	Panama, Brazil	Panama
PORTE	2	United States of America, Brazil	United States of America
POSTA	2	Mexico, Brazil	Mexico
POTBA	2	Colombia, Brazil	Colombia
PRIMA	2	Brazil, Indonesia	Brazil
PROST	2	United States of America, Brazil	United States of America
PROVE	2	United States of America, Brazil	United States of America
PUBLA	2	Spain, Brazil	Spain
PUPSI	2	Argentina, Brazil	Argentina
RAXOR	2	Brazil, Guyana	Brazil
REDOC	2	United States of America, Brazil	United States of America
REGIS	2	United States of America, Brazil	United States of America
REINA	2	Brazil, Norway	Brazil
RELEX	2	Brazil, Republic of Korea	Brazil. Republic of Korea if not used by Brazil.
REMEK	2	Brazil/Paraguay (FIR boundary), Russian Federation	Brazil/Paraguay
RIDAL	2	Brazil, Australia	Brazil
RITMO	2	Tunisia, Brazil	Tunisia
RODAX	2	Panama, Brazil	Panama
RODES	2	Brazil, Australia	Brazil
ROMUS	2	Brazil, Chile	Brazil
ROPEN	2	Brazil, Chile	Brazil
RUBIC	2	United States of America, Brazil	United States of America
SAKSA	2	Argentina, Brazil	Argentina
SAKSI	2	Colombia, Brazil	Colombia
SARPA	2	Bolivia (Plurinational State of), Brazil	Bolivia (Plurinational State of)
SARTA	2	Japan, Brazil	Japan
SASLA	2	Colombia, Brazil	Colombia

5LNC	Count	Countries	Priority
SATNA	2	Australia/Indonesia (FIR boundary), Brazil	Australia/Indonesia
SELDI	2	Ecuador, Brazil	Ecuador
SIDOV	2	Colombia, Brazil	Colombia
SIGAK	2	Brazil, Japan	To be determined by the 5LNC Duplicate Resolution Rules
SIGAR	2	Brazil, Indonesia	To be determined by the 5LNC Duplicate Resolution Rules
SIGAS	2	Brazil, Indonesia	Brazil
SIGIR	2	Colombia, Brazil	Colombia
SIKEM	2	Peru, Brazil	Peru
SIKIL	2	Brazil, Indonesia	Brazil
SOLDO	2	United States of America, Brazil	United States of America
TARIB	2	New Zealand, Brazil/Colombia (FIR boundary)	New Zealand
TERES	2	United States of America, Brazil	United States of America
TEXAS	2	United States of America, Brazil	United States of America
TIMBO	2	Australia, Brazil	To be determined by the 5LNC Duplicate Resolution Rules
TIPLI	2	Brazil, Democratic Republic of the Congo	Brazil
TOKIM	2	Brazil, Singapore	Brazil
TOPAM	2	Brazil, India	Brazil
TOPIK	2	Brazil, Venezuela	Brazil
TOPIL	2	Brazil, Argentina	Brazil
TOSAR	2	Brazil, Japan	Brazil
TROVA	2	United States of America, Brazil	United States of America
UGOTA	2	Brazil, Colombia	Brazil
VADON	2	Brazil, Argentina	Brazil
VULRI	2	Colombia, Brazil	Colombia
VURAK	2	Argentina, Brazil	Argentina
VUSTA	2	Brazil, Peru	Brazil
ZAMBI	2	United States of America, Brazil	United States of America

COLOMBIA

5LNC	Count	Countries	Priority
ANGEL	4	Thailand, Japan, Honduras (COCESNA), Colombia/Ecuador (FIR boundary)	Colombia/Ecuador
COLON	4	Costa Rica (COCESNA), Colombia, United States of America, Spain	Spain
MANG A	3	New Zealand, Viet Nam, Colombia	Colombia
MOSNA	3	Brazil, Cambodia, Colombia	Colombia
NEMAL	3	Austria, Colombia, Fiji	Austria
ORTIZ	3	United States of America, Colombia/Venezuela (FIR boundary), China (Taiwan)	United States of America
ZORRO	3	Australia, United States of America, Brazil/Colombia (FIR boundary)	United States of America
ALBAK	2	Colombia, Australia	Colombia
ALPON	2	Panama/Colombia (FIR boundary), Indonesia	Panama/Colombia
AMBAL	2	Colombia, Saudi Arabia	Saudi Arabia
ANDIL	2	Colombia, Madagascar	Colombia
ASANO	2	Japan, Colombia	To be determined by the 5LNC Duplicate Resolution Rules
ASIVI	2	Colombia, Venezuela	Colombia
ATAKI	2	Colombia, Turkey	Colombia
ATATU	2	Peru, Brazil/Colombia (FIR boundary)	Peru
BABOR	2	Algeria, Colombia/Venezuela (FIR boundary)	Algeria
BISUL	2	Colombia, Argentina	Colombia
BOGAL	2	Colombia/Panama (FIR boundary), Australia	Colombia/Panama
BURDU	2	Colombia, Guinea-Bissau	Colombia
BURPA	2	Colombia, Australia	Colombia
BUTAN	2	Colombia, Philippines	Colombia
DALNA	2	Colombia, Peru	Colombia
DOGTA	2	Colombia, Brazil	Colombia
EDVAR	2	Colombia, Brazil	Colombia
EGISA	2	Colombia, Venezuela	Colombia
EVLUB	2	Colombia, Brazil	Colombia
GARCI	2	Venezuela/Colombia (FIR boundary), Brazil	Venezuela (Bolivarian Republic of)/Colombia
GEDOK	2	Colombia, Brazil	Colombia
GIKRO	2	Colombia, Brazil	Colombia

5LNC	Count	Countries	Priority
GILGA	2	Aruba (Netherlands)/Colombia/Venezuela (Bolivarian Republic of) [FIR boundary], Republic of Korea	Aruba (Netherlands)/Colombia/Venezuela (Bolivarian Republic of)
ILNOP	2	Colombia, Brazil	Colombia
IMBIS	2	Colombia, Brazil	Colombia
ISESA	2	Colombia, Brazil	Colombia
ITAMU	2	Colombia, Brazil	Colombia
KABOS	2	Colombia, Japan	Colombia
KAKUD	2	Colombia, Brazil	Colombia
KAMIS	2	Colombia, Japan	Colombia
KEVER	2	Colombia, Brazil	Colombia
KEXAN	2	Colombia, Venezuela	Colombia
KOMB O	2	Colombia, Brazil	Colombia
KORKI	2	Colombia, Cambodia	Colombia
KOTIN	2	Colombia, Australia	Colombia
KOVU M	2	Colombia, Brazil	Colombia
LITOL	2	Colombia, Guyana	Colombia
LOKOS	2	Colombia, Russian Federation	Colombia
LUVDO	2	Colombia, Brazil	Colombia
MAKB U	2	Colombia, Japan	Colombia
MAMP O	2	Colombia, Brazil	Colombia
MAPMI	2	Colombia, Brazil	Colombia
MARPU	2	Colombia, Brazil	Colombia
MILOG	2	Colombia, Brazil	Colombia
MOREL	2	Australia, Colombia	To be determined by the 5LNC Duplicate Resolution Rules
MOXIP	2	Colombia, Brazil	Colombia
MULUX	2	Colombia, Brazil	Colombia. Brazil if not used by Colombia.
NAXUP	2	Colombia, Brazil	Colombia
NISBO	2	Colombia, Brazil	Colombia
OPMEL	2	Colombia, Venezuela	Colombia
OSAMA	2	Colombia, Jordan	Colombia
PANID	2	Colombia, Brazil	Colombia
PANOR	2	Colombia, Australia	Colombia
POTBA	2	Colombia, Brazil	Colombia
PUKAM	2	Colombia, Venezuela	Colombia
PUMPA	2	Colombia, Australia	Colombia

5LNC	Count	Countries	Priority
RELUN	2	Peru, Colombia/Venezuela	Peru
SAKSI	2	Colombia, Brazil	Colombia
SASLA	2	Colombia, Brazil	Colombia
SERVO	2	Colombia, Chile	Colombia
SIDOV	2	Colombia, Brazil	Colombia
SIGIR	2	Colombia, Brazil	Colombia
TARIB	2	New Zealand, Brazil/Colombia (FIR boundary)	New Zealand
UGOTA	2	Brazil, Colombia	Brazil
VENTA	2	France, Colombia/Venezuela (FIR boundary)	France
VULRI	2	Colombia, Brazil	Colombia

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