



ICAO

International Civil Aviation Organization (ICAO)
South American Regional Office (SAM)
RLA06/901 - ICAO SMGCS Webinar for the SAM Region
15 September 2021

SUMMARY OF DISCUSSIONS – RLA06/901 - ICAO SURFACE MOVEMENT, GUIDANCE AND CONTROL SYSTEMS WEBINAR FOR THE SAM REGION (21SAMSMGCS)

(Presented by the Secretariat)

SUMMARY	
This paper lists the outcomes from the first ICAO Surface Movement, Guidance and Control Systems Webinar for the SAM Region (code 21SAMSMGCS) held virtually on September 15, 2021 with the support of Regional Project RLA06/901.	
ICAO strategic objectives	<i>This paper is related to the following strategic objectives: A – Safety B – Air Navigation Capacity and Efficiency</i>

1 Background

1.1 In a general sense, an SMGCS system provides guidance and control of an aircraft from the runway to the apron parking position, and from this position to the take-off runway, as well as other movements in the movement area.

1.2 Although the controlled aerodromes have some form of SMGCS, in most aerodromes these are not properly documented, they are not reviewed collaboratively according to the changes in traffic intensity and sometimes they are not analyzed from the perspective to avoid incursions on runways.

1.3 This virtual seminar, which is sponsored by Regional Project RLA06/901, aims to show the general concept of SMGCS and its difference in relation to A-SMGCS (which sometimes tends to be confused) in order for States to review their requirements and ensure that aerodrome operators properly document these, so as to guarantee both safety in the movement area, as well as the efficiency of aircraft movement on the ground.

1.4 To achieve this, the Regional Office proposes:

- ✓ Create awareness of the available documentation (even though it is more than two decades old, it is still valid).
- ✓ Identify existing gaps that prevent suppliers from achieving an acceptable level of operational safety in their processes.
- ✓ Implementation of measures agreed by the States (at local or regional level) -To be defined.

2 Attendance & Speakers

2.1 Over 130 participants attended the event from 15 different countries including CAA delegates, airport operators, aircraft operators, and ANSPs.

2.2 Presentations, recording and other information is available at the event's portal: <https://www.icao.int/SAM/Pages/MeetingsDocumentation.aspx?m=2021-RLA06901-SMGCS>

2.3 The speakers of the event were:

- Session 1.** Fabio Rabbani – ICAO SAM Regional Director
- Session 2.** RC Raman, Technical Officer Aerodromes, ICAO HQ Montreal
- Session 3.** Adel Ramlawi – Standards and Procedures Officer – ICAO HQ Montreal
- Session 4.** Vasileios Stefanioros – Senior Expert Aerodromes – EASA
- Session 5.** Shayne Campbell – Safety Programme Manager – CANSO
- Session 6.** Nelson Rosano – Operations Manager – MVD Airport

3 Agenda

3.1 The agenda took the delegates thru the basics of SMGCS, from the perspective of some of the stakeholders involved:

3.1.1 Setting the scene – Basic SMGCS provisions from ICAO

A walkthrough the basics of SMGCS, emphasizing on:

- Provisions under ICAO Annex 14 Vol. I (chapter 9)
- What should a SMGCS take into account?
 - a) *the density of air traffic;*
 - b) *the visibility conditions under which operations are intended;*
 - c) *the need for pilot orientation;*
 - d) *the complexity of the aerodrome layout; and*
 - e) *movements of vehicles.*
- Key Stakeholders:
 - Aerodrome engineering, operations, communications
 - Aerodrome air traffic control service
 - Operators and pilots
- Recommendation 9.8.4 that advises on how a SMGCS should be designed to assist in the prevention of inadvertent incursions of aircraft and vehicles onto an active runway.

3.1.2 USOAP CMA update for the SAM Region SMGCS Webinar

The presentation delivered by the Standards and Procedures Officer (Aerodromes) from the Monitoring and Oversight Section at ICAO HQ focused on related USOAP AGA Protocol Questions (PQs) related to SMGCS, its applicability and effective implementation worldwide.

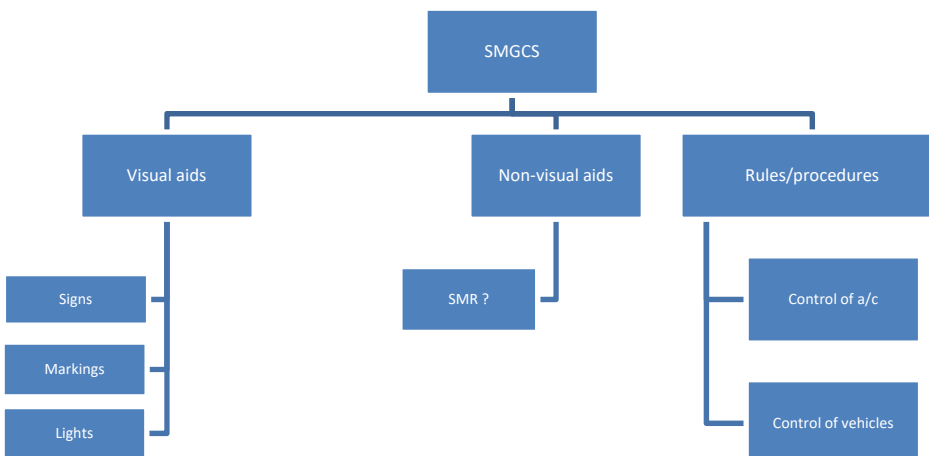
SMGCS related PQs are 8.203, 8.205, 8.209, 8.215 & 8.221.

Global implementation (as of 15 Sep 21) is the following:

PQ	EI%
8.203	53.04%
8.205	43.33%
8.209	52.87%
8.215	83.33%
8.221	43.83%

3.1.3 SMGCS & A-SMGCS – The European Experience

EASA provided a complete view, from their European perspective, of the SMGCS:



EASA explained how SMGCS is already available at every airport, however, with a different level of complexity based on:

- aerodrome design characteristics

- operational and meteorological conditions
- human factors principles

Furthermore, EASA explained how they carry out inspections checks of SMGCS, including visual aids, non-visual aids and procedures.

The panelist briefly explained A-SMGCS in Europe, with the objectives:

- Enabling ATCOs to prevent hazards and incidents resulting from ATCO, flight crew or vehicle driver operational errors or deviations
- Detection and alerting of conflicting ATC clearances to aircraft and deviation of vehicles and aircraft from their instructions, procedures or routing that may potentially put the vehicles and aircraft at risk of a collision

3.1.4 SMGCS collaboration – CANSO perspective

The panelist from CANSO focused his presentation on the need for collaboration between all involved stakeholders, on both the normal SMGCS and the A-SMGCS.

He acknowledge the experience of various ATCO (air traffic controllers) with “close calls” on the use of A-SMGCS. Examples were given such an incident with a grass cutting truck at an airport. That is why he acknowledge the need of a collaborative approach. He also mentioned examples on runway incursions due to the malfunction of stop bars. On the other hand, he acknowledge other experience in which A-SMGCS mitigate the risk of incidents and accidents.

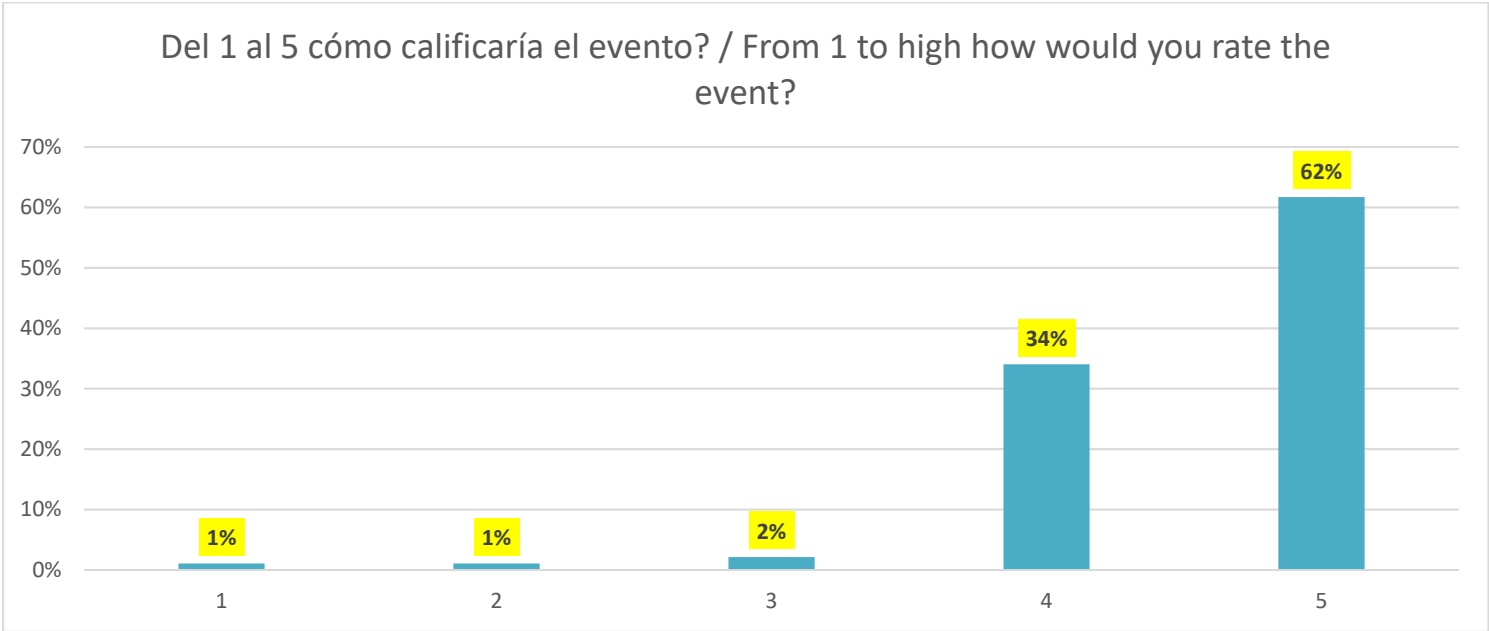
3.1.5 SMGCS ACI perspective – Experience from Carrasco Airport (Uruguay)

Finally, ACI perspective was presented by Carrasco Airport operator (Montevideo, Uruguay) who explained how their low visibility procedure works and the need for coordination (formal and active) is needed with ATC.

4 Conclusion

The event drove a lot of interest from participants, which make some important contributions thru the Q&A function and on a survey directed to participants after the event. A summary of the survey is included as **Appendix A** of this document.

Appendix A – Feedback from 21SAMSMSGCS participants



21SAMSMGCS SURVEY RESULTS TO QUESTION: ¿CÓMO PODEMOS MEJORAR EN EL PRÓXIMO EVENTO? / HOW COULD WE IMPROVE ON THE NEXT EVENT?

Español	English
mas ejemplos vividos en cada aeropuerto	More examples experienced in each airport
Un poco más de tiempo para resolver las dudas, o preguntas sobre las experiencias al momento de la implementación.	A little more time to resolve doubts or questions about the experiences at the time of implementation.
Experiencias en la región, gestión de reglamentación y/o guías de orientación, proceso de autorización del servicio y calificación del personal	Experiences in the region, regulatory management and / or guidance guides, service authorization process and staff qualification
Con la invitación de mayor cantidad de expositores del area SAM	With the invitation of a larger number of exhibitors from the SAM area
Con una mayor interactividad de los participantes.	With greater interactivity of the participants.
pienso que podría servir para una mejor perspectiva, algunos videos de casos de SMGCS implementados en otros aeropuertos	I think it could serve for a better perspective, some videos of SMGCS cases implemented in other airports
Extender la profundidad del tema.	Extend the depth of the topic.
Invitando a más Operadores de Aeródromo para que compartan sus lecciones aprendidas	Inviting more Aerodrome Operators to share their lessons learned
Más experiencias de aeropuertos de la región	More experiences from airports in the region
Demostración con videos de las bondades y beneficios que trae una buena implementación del sistema.	Demonstration with videos of the benefits that a good implementation of the system brings.
Excelente el uso de todos los recursos, recomiendo se tome un espacio luego del evento para leer las preguntas y que se den las respuestas en vivo con el panel de los expertos exponentes	Excellent use of all resources, I recommend taking a space after the event to read the questions and that the answers are given live with the panel of expert exponents

Ampliando el tiempo del Evento, con más extensión para los Expositores	Extending the time of the Event, with more time for the Exhibitors
Incluyendo mas experiencias o casos exitosos de implementacion	Including more experiences or successful implementation cases
Que se proporcione material bibliográfico de los expositores y otros documentos de OACI.	That bibliographic material of the exhibitors and other ICAO documents be provided.
Mayor investigación y presentación de datos estadísticos regionales	Further research and presentation of regional statistical data
Más participación de las personas presenciales	More face-to-face participation
Utilizar mas ejemplos	The use of more examples
un poco mas de tiempo para explicar.	A little more time to explain.
Para mi me pareció excelente la presentaciones. Pero debería mas tiempo	The presentations were excellent to me, but there should be more time
Incorporar mayor información y experiencias con el A-SMGCS	Incorporate more information and experiences with the A-SMGCS
Seria bueno ver como el cambio climatico afecta la industria de la aviación en las difereentes regiones del mundo y que sugerencia y alternativas la OACI aportaria a los Estados.	It would be good to see how climate change affects the aviation industry in different regions of the world and what suggestions and alternatives ICAO would provide to the States.
Poder hacer mas preguntas	Be able to ask more questions

¿EXISTE ALGÚN ASPECTO QUE LE GUSTARÍA SE PUDIERA TRATAR EN EL FUTURO? / IS THERE ANY SUBJECT YOU WISH TO BE ENGAGE IN THE FUTURE?

Español	English
profundizar en el funcionamiento de los ILS de los AD de acuerdo a su categoria	Deepen in the operation of the ILS of the ADs according to their category
Sería interesante un seminario sobre procedimientos bajo condiciones meteorológicas adversas en cuanto al servicio de control de tránsito aéreo tanto en aeródromo como aproximación y control de área, además uno sobre el correcto uso de la fraseología estaría muy bien, y gracias por su esfuerzo	A seminar on procedures under adverse meteorological conditions in terms of air traffic control service, both at the aerodrome and approach and area control. It would be interesting also one on the correct use of phraseology. Thank you for your effort
Dar WEBINAR de actualizaciones en materia AVSEC, FAL, SMS y otros especialmente en SAM.	Give WEBINAR of updates in AVSEC, FAL, SMS and others especially in SAM.
Temas relacionados directamente a nuestra región suramericana	Topics directly related to our South American region
Si difundir más y obligar a los Estados a una campaña del SAFETY CULTURE específicamente a los GERENTES o DIRECTORES DE SERVICIOS O PROVEEDORES DE NAVEGACION AEREA, así como LA CONCIENCIA SITUACIONAL a todo el personal técnico operacional	Whether to disseminate more and oblige the States to a SAFETY CULTURE campaign specifically to the MANAGERS or DIRECTORS OF SERVICES OR PROVIDERS OF AIR NAVIGATION, as well as SITUATIONAL AWARENESS to all operational technical personnel
Referente a inspecciones en aeródromos certificados y no certificado!	Regarding inspections at certified and non-certified aerodromes!
Tal vez temas de FRMS ya que la region esta retrasando su implantación	Perhaps FRMS issues as the region is delaying its implementation
Los inspectores aeronáuticos de la Región	The aeronautical inspectors of the Region
Eventos Meteorologicos Severos que afectan las operaciones aeroportuarias en especial Actividad Electrica sobre la terminal . Muchas Gracias por la invitacion !!	Severe Meteorological Events that affect airport operations, especially Electrical Activity on the terminal. Thank you very much for the invitation!
Una visión del A-CDM y su relación con los Stakeholders	A vision of the A-CDM and its relationship with the Stakeholders
Procedimientos de Operación en Condiciones de Visibilidad reducida	Operating Procedures in Conditions of Reduced Visibility
Lo concerniente al A-SMGCS, gracias	Concerning the A-SMGCS, thank you

I would like you to address adverse weather conditions in aircraft takeoff and landing... I would also like a webinar with themes of Runway incursions	I would like you to address adverse weather conditions in aircraft takeoff and landing ... I would also like a webinar with themes of Runway incursions
Especificar acerca de la interacción y responsabilidades de cada uno de los actores, debido a que en muchas ocasiones no son conscientes de los límites y responsabilidades operativas. Aclarar si se proyectan cambios en la fraseología aplicable	Specify about the interaction and responsibilities of each of the actors, because in many cases they are not aware of the operational limits and responsibilities. Clarify if changes to applicable phraseology are projected
Indicar la actualización, de las normas y métodos recomendados de referencia, al tema tratado	Indicate the update, of the standards and recommended reference methods, to the subject covered
Evaluación de Riesgo Peligro Aviario Plan de Gestión de Riesgo Bomberos de Aeropuerto	Bird Hazard Risk Assessment Airport Firefighters Risk Management Plan
las facilidades de los servicios de transito aéreo con visibilidad reducida	The facilities of air traffic services with reduced visibility
Aeródromos - Exenciones	Aerodromes - Exemptions
Operaciones con pistas paralelas	Parallel runway operations
Superficies limitadoras de obstaculos	Obstacle limiting surfaces
Dar el curso de inspector gubernamental de aerodromos	Give the government aerodrome inspector course
el factor humano	The human factor
softwares de aplicacion	Application software
Servicio de Salvamento y Extinción de Incendios	Rescue and Fire Fighting Service
Si, el SMS	Yes, the SMS
Requisitos y/o condiciones de aeródromos, operaciones, etc, para implementar un A-SMGCS	Requirements and / or conditions of aerodromes, operations, etc., to implement an A-SMGCS
Estadísticas de accidentes en el área de movimiento	Accident statistics in the movement area
GRF	GRF
