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INTRODUCTION

Dear Respected Colleagues,

The **WiMAX Forum** is currently focused on a number of activities to promote growth, innovation and increase awareness of Aeronautical Mobile Airport Communication System (**AeroMACS**), **WiGRID**, and the **WiMAX** technology. With the participation and collaboration of our **Board of Directors, Member Companies, Working Group Representatives**, and industry experts, we continue advancing, achieving important milestones and adding value to the broader industry.

This week the WiMAX Forum and member companies are hosting **AeroMACS Presentations and Exhibition** at the **World ATM Congress** in Madrid. Airlines, airports and air traffic controllers can benefit from the protected, regulated and licensed aviation spectrum band from 5091 MHz to 5150 MHz, which has been designated on a worldwide basis by the International Telecommunication Union (ITU) AeroMACS. Spectrum allocations dedicated and reserved to aviation applications are more secure and eliminates interference from other networks or devices. Next month we will share with you more details about our participation. Please stay tuned!

This month, **SESAR Joint Undertaking** has published the fourth edition of the **SESAR Solutions Catalogue**, charting progress in developing the technological and procedural solutions needed for delivering the Digital European Sky. The solutions captured in this latest edition offer a pathway towards recovery, and a smarter and more sustainable air transport system in Europe. AeroMACS offers a solution to offload the saturated VHF datalink communications in the airport environment and support new services. AeroMACS is an international standard and supports globally harmonised and available capabilities according to ICAO Global Air Navigation Plan (GANP). SESAR has validated the system concept and usage of the airport surface datalink system.

Next month, on **Saturday, November 6, 2021 at 3:15 pm**, during the ACI-NA Planning, Safety, Infrastructure, & Development (OPSID) Committee Workshop, **Chris Oswald** at ACI-NA and **Declan Byrne** at WiMAX Forum will provide brief updates on the current efforts to get the FCC to approve use of AeroMACS wireless communications technology and reduce restrictions on the use of airside surface vehicle squitters to improve airport safety and improve airside data communications resiliency. The **ACI-NA Annual Conference and Exhibition** will take place on November 6-9, in Reno, Nevada. For more information, please visit: **ACI-NA Annual Conference and Exhibition 2021**.

The next few months promise much progress with the return of face-to-face meetings and conferences. To foster a prosperous environment, the WiMAX Forum and our Member Companies will participate globally at key industry

events. Through our participation in events, seminars, webinars, and other meetings we are reaching out to diverse audiences in ways that will best serve all stakeholders, and we will continue the pace throughout the year.

We will continue participating in these important meetings and events, in person and virtually to bring the highest value to our Membership as the market share further expands. Please stay tuned and for more information, visit our website at WiMAXForum.org, [YouTube Channel](#) and Social Media ([Facebook](#), [LinkedIn](#) and [Twitter](#)).

Please reach out to us directly at Info@wimaxforum.org if you have any questions or comments and we would be happy to schedule a time to speak with you. We at the WiMAX Forum wish you all a great rest of the month and we hope to see you very soon.

Best Regards,
WiMAX Forum

INDUSTRY SPOTLIGHT

The WiMAX Forum maintains a bustling schedule of public appearances, white paper publications, webinars, and press releases on behalf of our industry. Below you can find the most relevant activities and latest communications.

• **Fasten Your Seatbelt, AeroMACS Is Taking off to Go to World ATM Congress**

WiMAX Forum and Member Companies to Host AeroMACS Presentations in Madrid. The WiMAX Forum®, the leading nonprofit organization that certifies and promotes the compatibility and interoperability of broadband wireless products based upon IEEE Standard 802.16, is pleased to announce the fifth annual AeroMACS 2021 - Madrid collocated with World ATM Congress on Tuesday, 26 October at 16:30 at the Aireon Spotlight Stage on the exhibition floor located at IFEMA – Feria de Madrid Convention Centre.

To read the complete press release, please click [here](#).

• **Formal Security Verification of the Station-to-Station based Cell-attachment Procedure of LDACS**

Aeronautical communications systems are currently undergoing a modernization process. Analogue legacy systems shall be replaced with modern digital alternatives, offering higher bandwidth, increasing capacity and paving the way for Unmanned Aeronautical Vehicles (UAVs). One modern candidate technology is the L-band Digital Aeronautical Communications

System (LDACS), enabling long-range safety-critical digital communications between aircraft and ground.

To review the published paper, please click [here](#).

EVENTS

In the coming months, the WiMAX Forum will host, participate, attend, and support events globally. We continue our efforts to bring you quality conferences hosted by the WiMAX Forum, and we will present and participate at key industry events. The WiMAX Forum team looks forward to seeing you at these events.

Upcoming Events:

 <p>WiMAX FORUM* AeroMACS @WATMC MADRID, SPAIN</p>	<p>October 26-28, 2021 Madrid, Spain For more information visit: AeroMACS 2021 - Madrid</p>
 <p>World ATM Congress MADRID, SPAIN, IFEMA, FERIA DE MADRID 26 – 28 OCTOBER 2021</p>	<p>October 26-28, 2021 Madrid, Spain For more information visit: World ATM Congress</p>
 <p>RENO 2021 AIRPORTS COUNCIL INTERNATIONAL – NORTH AMERICA ANNUAL CONFERENCE AND EXHIBITION NOVEMBER 6 – 9, 2021</p>	<p>November 6-9, 2021 Reno, Nevada For more information visit: AeroMACS Participation at ACI-NA Annual Conference</p>
 <p>INDUSTRY OF THINGS WORLD ASIA</p>	<p>November 22-23, 2021 Virtual Conference For more information visit: Industry of Things World Asia</p>
<p>6th Annual Smart Cities Technology Symposium & Exhibition January 18-19, 2022 • Chicago</p> 	<p>January 18-19, 2022 Chicago, Illinois For more information visit: Smart Cities International Symposium</p>

 <p>29th Convergence India Expo 23-25 March 2022 Pragati Maidan, New Delhi</p>	<p>March 23-25, 2022 New Delhi, India For more information visit: Convergence India</p>
 <p>IOT SOLUTIONS WORLD CONGRESS</p>	<p>May 10-12, 2022 Barcelona, Spain For more information visit: IoT Solutions World Congress</p>
 <p>3rd Annual MarketsandMarkets Industry 4.0: Cybersecurity & IIOT Virtual Conference 23rd - 24th September 2021</p>	<p>May 19-20, 2022 Virtual Event For more information visit: Industry 4.0 Conference</p>

The WiMAX Forum plans to host and participate in other events over the course of the year. As details concerning these events are finalized, we will be certain to keep you informed. **For more information about our events, please visit: [WiMAX Forum Events](#).**

MEMBERSHIP SERVICES

The **WiMAX Forum Membership** provides a wide range of **benefits and services** that promote growth and innovation of AeroMACS, WiGRID, and WiMAX technology.

Only WiMAX Forum Members can **certify** products to guarantee interoperability and standard compliance for AeroMACS, WiGRID, and WiMAX; secure networks using **Public Key Infrastructure (PKI)** certificates; develop technical specifications; influence favorable regulatory environments; and contribute to the growth of the industry through standards development that satisfy the market needs, among other advantages.

The WiMAX Forum is committed to delivering the value necessary for our members to get the most from their membership, and we are always engaging with individual members to discuss how we can better serve them. If you are interested in speaking with our leadership team on our specific initiatives or have any questions, please send a message to **info@wimaxforum.org**.

The WiMAX Forum is the best place to access, leverage, and influence the growth and development of the AeroMACS, WiGRID, and WiMAX Technology. So be a leader and step up to get involved today!

WORKING GROUPS

The **WiMAX Forum Working Groups** are key to the development of WiMAX technology and participation is encouraged for all WiMAX Forum Members. The WiMAX Forum technical activities are organized through a number of Working Groups, that produce technical requirements, develop technical specifications, and advise the Forum.

The Working Groups are focused on a number of activities to promote growth and innovation of the **AeroMACS** and **Smart Energy** markets, through product certification and various spectrum access solutions. The Aviation Working Group (AWG) acts as a focal point for Worldwide Aviation Industry interest in AeroMACS as a technology for Aviation Applications on a global basis. And the Smart Energy Working Group (SEWG) acts as a focal point for Smart Energy Applications, and will promote WiMAX as the premiere technology on a globally.

AWG members and industry have been collaborating to advance key AeroMACS projects including: development and maintenance of specifications related to AeroMACS Product Certification, AeroMACS Public Key Infrastructure (PKI), Federal Communications Commission (FCC) AeroMACS Petition for Rulemaking, In-person and Virtual Conferences, Webinars and other initiatives to support AeroMACS as the standard selected to improve communications at the airport surface.

Last month, the United States Federal Communications Commission (FCC) has issued a **Public Notice (PN)** to refresh the record on the use of certain spectrum in the 5 GHz band for unmanned aircraft systems (UAS). In specific to technical requirements, it has been requested to comment on any technical limitations necessary to protect the AeroMACS bands, 5000-5030 MHz and 5091-5150 MHz.

Comments were due on October 12, 2021 and reply comments were due this week on October 25, 2021. If you have any questions, comments or concerns and would like to discuss the details with us, we would be delighted to speak with you. You may contact us at info@WiMAXForum.org.

AeroMACS has demonstrated in the past years the immense potential and benefits as the technology selected to support the safety and regularity of flights. AWG members work closely with the International Civil Aviation Organization (**ICAO**) and other organizations so that security policies and specifications produced can serve as guidelines to other groups in the industry that are planning AeroMACS deployments as well as serving as a PKI model

for other Aviation technologies. AeroMACS is gaining momentum, achieving important milestones and adding value to the broader aviation industry.

The **AeroMACS PKI** is provided by the WiMAX Forum in partnership with **Eonti** as the Management Authority (MA). Eonti is responsible to manage and implement AeroMACS PKI to ensure AeroMACS operational networks are secure. Strategic guidance for the AeroMACS PKI Program is provided by the AeroMACS Advisory Council (AAC), which is a collaborative body comprised of Members of the WiMAX Forum and ICAO. The AAC promotes effective public-private dialogue consistent with the AeroMACS Certificate Policy and ICAO policies, thereby helping promote optimum interoperability and trust among Participants. AeroMACS PKI is commercially available and an overview of the AeroMACS PKI process is available here: **[AeroMACS PKI Users Overview](#)**.

SEWG members continue to work with IEEE to bring to market devices for narrowband applications and other sub 1GHz spectrum. The IEEE 802.16t project specifies operation in licensed spectrum for mission critical entities that have a strong preference for private, licensed networks for their data communications needs. If you are interested in participating on this activity, please contact us.

The WiMAX Forum Working Groups are chartered to bring industry leaders together to collaborate and contribute to the development of technical specifications, technical requirements, harmonization of documents, and provide coordinated recommendations to advise the Forum. For more information on our Working Groups, please visit: **[WiMAX Forum Working Groups](#)**.

Participation by industry experts and organizations is crucial to influence and leverage the Working Groups activities, and contribute to the development of the market. If you are interested in participating in our Working Groups, please contact us at **info@WiMAXForum.org** and we will be happy to speak with you about this opportunity.

Working Group activity is integral to the success of the Forum, and your participation is important!

WiMAX FORUM NEWS

The WiMAX Forum weekly Newsbrief contains the summary of news from around the WiMAX ecosystem and is intended as a benefit to our community. If you do not yet receive the Newsbrief and wish to do so, please sign up here: **[WiMAX Newsbrief](#)**.

Below is a summary for the month of October:

- **AeroMACS Participation at the ACI-NA Annual Conference and Exhibition Next Month**
- **AeroMACS Participation at the World ATM Congress This Week**
- **4 Takeaways from DigiCert's 2021 PKI Automation Study**
- **Infrastructure charges increase \$2.3 billion**
- **BLIVE: Bloomberg Policy Blueprint - Siemens USA CEO Humpton on Infrastructure, Modernization**
- **'Aviation is showing its resilience yet again'**
- **FCC vacancies threaten to derail US broadband plans**
- **The airline industry in Europe – a fragile recovery from the pandemic**
- **World ATM Congress Aireon Spotlight Stage Agenda**
- **Enterprises Overwhelmed in the Absence of PKI Automation, DigiCert Finds**
- **Air traffic management: Delivering the digital European sky**
- **New EUROCONTROL 2021-2027 forecast expects traffic recovery to 2019 levels by the end of 2023**
- **RTCA October 2021 Digest**
- **IATA director criticizes 'unnecessary' air transport restrictions**
- **Smart Cities International Symposium**
- **Appetite to travel is high, new research finds**
- **When Will Flights Return To Pre-Pandemic Pricing?**
- **Fasten Your Seatbelt, AeroMACS Is Taking off to Go to World ATM Congress**
- **World ATM Congress - The Content and Contacts You Want**
- **RTCA Webinar Recording: Innovation and Airport Infrastructure**
- **Governments Response to Delta Variant Slams August Domestic Traffic Demand**
- **DigiCert 2021 State of PKI Automation Survey Finds APAC Companies are Struggling with Reliance on Manual Processes Amid Growing Volume of Digital Certificates**
- **ACI World calls for a pragmatic and risk-based approach to managing the sustainable recovery of aviation**
- **FAA Invests \$479.1M in Safety, Sustainable Infrastructure at Airports**
- **CAAC Issues Opinions on Promoting Modernization of Civil Aviation Statistical Work**
- **FCC Asks for Public Comment on Spectrum for Internet of Things**
- **Webinar Recording - IoT Security: How to Avoid the Common Pitfalls of Using Keys and Certificates**

- **Update of AeroMACS Application and Specification in China**
- **EUROCONTROL Stakeholder Forum on building aviation cyber-resilience**
- **ACI-NA Annual Conference and Exhibition 2021**
- **How the industry learned the lessons from 9/11**
- **Leonardo: approved the merger by incorporation of Vitrociset into Leonardo and the Engagement Policy**
- **Senators Urge President Biden to Make Rosenworcel Permanent FCC Chair**
- **Protecting Aircraft Networks from Cybersecurity Breaches**
- **September 2021 WiMAX Forum Monthly Newsletter**



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