



**To** SAI Subcommittee  
GAT Working Group

**Date** November 2, 2018

**From** Peter Grau  
[peter.grau@sae-itc.org](mailto:peter.grau@sae-itc.org)  
tel +1-240-334-2580

**Reference** 18-999/SMA-096 lth

**Subject** **Meeting Announcement**  
**Global Aircraft Tracking (GAT) Working Group**

**Chairman** **Chuck Adler, Boeing (Charles.O.Adler@Boeing.com)**

**When** **Meeting December 4-6, 2018**  
Tuesday through Thursday, from 0900 to 1700  
**Tours December 7, 2018 (Optional)**  
Friday 0800 to 1700 (See Attachment 1 for more information)

**Host** Iridium is hosting the GAT Working Group meeting

**Where** Meeting Location  
**Lansdowne Resort and Spa- Thurber Room**  
44050 Woodridge Parkway  
Leesburg, Virginia 20176  
United States  
+1 (703) 729-8400  
Point of Contact  
**Michael Hooper**  
Director and General Manager, Iridium Aviation Line of Business  
email: [michael.hooper@iridium.com](mailto:michael.hooper@iridium.com)  
tel: +1 (703) 287-7465 (office)  
+1 (703) 615-3271 (mobile)  
+1 (703) 287-7540 (fax)

Please provide the following information no later than close of business Friday,  
**November 23, 2018** to Michael Hooper:

- Name
- Contact e-mail address
- Contact mobile telephone number

## Hotel

The Lansdowne Resort and Spa is the venue hotel. A preferential rate of \$169 per night has been established for participants in the Global Aircraft Tracking Working Group. Please reference Iridium 2018 when phoning in reservations for discounted rates. The reservation deadline for the special rate is **Monday November 19, 2018**. After that date, normal rates will apply. Please use the following link to reserve your hotel room:

<https://book.passkey.com/go/IRIDIUM>

### **Lansdowne Resort and Spa**

44050 Woodridge Parkway  
Leesburg, Virginia 20176  
United States  
+1 (703) 729-8400

## Instructions

Please notify the Industry Activities staff of your intention to attend by registering online before **Friday, November 23** at: <http://www.aviation-ia.com/events/>.

The meeting is open to all interested parties. Individuals requesting time on the agenda should contact Chuck Adler or Peter Grau. The agenda will be finalized one week prior to the meeting.

## Activity Scope

The goal of the GAT Working Group is to prepare standards applicable to the ICAO Global Aeronautical Distress and Safety System (GADSS). These are intended to positively identify and track an aircraft with minimal impact on new production aircraft as well as legacy aircraft retrofit.

## Meeting Objectives

### **Global Aircraft Tracking Standards**

The AEEC has formed the Global Aircraft Tracking (GAT) Working Group to prepare standards applicable to the ICAO Global Aeronautical Distress and Safety System (GADSS). The APIMs are as follows:

APIM 17-004 – Autonomous Distress Tracking (ADT)

APIM 17-005 – Timely Recovery of Flight Data (TRFD)

Several technologies may contribute to positive aircraft tracking. This includes ground-based and space-based ADS-B, satcom, ELT-DT, mixed technologies, and others.

**ARINC Project Paper 680:** *Autonomous Distress Tracking (ADT) Requirements and Architectures* draft will be reviewed. The next steps are to finalize the characteristic that will specify equipment, interface, and aircraft installation requirements as well as ground system requirements.

### **ICAO Global Aeronautical Distress and Safety System (GADSS)**

ICAO SARPS will require GADSS on certain production aircraft with a gross weight greater than 27,000 kg.

- Aircraft Tracking – All flight phases – 15-minute interval
- Autonomous Distress Tracking – High data rates

Technologies for consideration include Mode S, ADS-B, ADS-C, including satcom and VHF datalink.

### **APIM 17-004 – Autonomous Distress Tracking (ADT)**

The goal is to define system requirements, equipment architectures, and aircraft installation standards for equipment capable of meeting ICAO GADDS requirements potentially including:

- Satcom-based tracker
- Space-based Automatic Dependent Surveillance – Broadcast (ADS-B)
- Fixed Emergency Locator Transmitter – Distress Tracker (ELT-DT)
- Dissimilar-Complementary Architectures

Airlines are expected to benefit by being able to meet the forthcoming worldwide Autonomous Distress Tracking mandates in the most effective manner possible.

### **APIM 17-005 – Timely Recovery of Flight Data (TRFD)**

The Global Aircraft Tracking Working Group is expected to define system requirements, equipment architectures, and aircraft installation standards for equipment capable of meeting ICAO TRFD requirements potentially including:

- Automatic Deployable Flight Recorder (ADFR) installed on the aircraft which is capable of automatically deploying from the aircraft
- Flight Data Streaming (FDS) – the ability to stream flight data from the airplane while in flight

Airlines are expected to benefit by being able to meet the forthcoming worldwide TRFD mandates in the most effective manner possible.

## **Travel Information**

Leesburg is served by three major airports: Washington-Dulles (IAD), Reagan National (DCA), and Baltimore-Washington (BWI). Any of these is suitable, and your choice will likely be determined by your point of origin. Approximate driving distances from each to the Lansdowne Resort and Spa are as follows:

- Washington-Dulles International (IAD) – 12 miles (International Connections)
- Washington Reagan National (DCA) – 35 miles
- Baltimore-Washington International (BWI) – 67 miles

A shuttle service is available from Washington-Dulles International Airport. Guests who choose to book shuttle transportation to/from Dulles Airport should use the link below once they have booked their flight information as they will need this to book the shuttle request. Please use code: 2018RM1.

<https://www.destinationhotels.com/lansdowne-resort/virginia-resort-about/airport-shuttle-request>

Shuttles are not available from Washington Reagan Airport or Baltimore-Washington Airport. It is recommended that those participants arriving at either of these airports arrange for a rental car, taxi, or Uber.

Please see in Attachment 1 that if you are planning to participate in the Friday tours, you will be required to make your own transportation arrangements to and from the three different tour locations.

# Attachment 1

## Tour Information

Three tours have been arranged following the meeting to be held Friday, December 7, 2018 as follows:

1. McMurdo Emergency Readiness and Response Experience Center (MERREC)
2. NASA SARLab (Goddard Space Flight Center)
3. NOAA Satellite Operations Facility (US SARSAT operations center including the USMCC)

You must make your own arrangements for travel between the three locations. The sequence of tours will be as follows:

### 1. McMurdo Emergency Readiness and Response Experience Center (MERREC)

4296 Forbes Blvd  
Latham, Maryland 20706

**Time: 8:00 AM – 9:30 AM**

#### Requirements:

- a. US Residents: Name, Phone number, and Employer (In Advance)  
Government issued id (Driver's license, Passport etc.) (On-Site)
- b. Foreign Nationals: Name, Phone number, and Employer (In advance)  
Passport (On-Site)

**Contact:** Please notify Christian Belleux no later than **November 30, 2018** and inform him of your plans to attend: [christian.belleux@orolia.com](mailto:christian.belleux@orolia.com)  
Mobile: +33 (0) 674 35 96 85

### 2. NASA SARLab

Goddard Space Flight Center  
Research and development center for COSPAS-SARSAT technology  
Development, prototyping, and testing  
8800 Greenbelt Road  
Greenbelt, Maryland 20771

**Time: 10:30 AM – 12:00 PM**

#### Requirements:

- a. US Residents: Name, Phone number, and Employer (In Advance)  
Government issued id (Driver license, pass, port etc.) (On-Site)
- b. Foreign Nationals (In Advance)
  - Full Legal Name
  - Date of Birth
  - Place of Birth
  - Residence
  - Citizenship
  - Copy of Passport
  - Copy of Visa (waiver)
  - Social Security Number (if available)

## Tour Information

- Foreign National ID (if no SSN available)
  - Contact Information
  - Company of Employment
- Passport (*On-Site*)

**Contact:** Please notify George Theodorakos no later than **November 30, 2018** of your plans to attend: [george.j.theodorakos@nasa.gov](mailto:george.j.theodorakos@nasa.gov)  
Desk +1 301-286-9134  
Mobile +1 240-222-2812

### 3. NOAA Satellite Operations Facility

US SARSAT operations center including the USMCC  
4231 Suitland Rd  
Suitland-Silver Hill, Maryland 20746

**Time: 1:30 PM – 3:30 PM**

#### Requirements:

- a. US Residents: Name, Phone number, and Employer (*In Advance*)  
Government issued id (Driver license, passport etc.) (*On-Site*)
- b. Foreign Nationals (*In Advance*)
  - Full Legal Name
  - Date of Birth
  - Place of Birth
  - Residence
  - Citizenship
  - Copy of Passport
  - Copy of Visa (waiver)
  - Social Security Number (if available)
  - Foreign National ID (if no SSN available)
  - Contact Information
  - Company of EmploymentPassport (*On-Site*)

**Contact:** Please notify George Theodorakos no later than **November 30, 2018** of your plans to attend: [george.j.theodorakos@nasa.gov](mailto:george.j.theodorakos@nasa.gov)  
Desk +1 301-286-9134  
Mobile +1 240-222-2812

# Tour Information

## December Meeting Plan/Locations

Dec 4-6 Leesburg VA (Tuesday – Thursday)  
GAT Meetings

Lansdowne Resort and Spa in Leesburg, VA:

[https://www.destinationhotels.com/lansdowne-resort/ppc/stay-and-swoon-over-fall?rt=google|cpc|LDR01-Lansdowne-Resort-Brand-DMV-15564-56429|lansdowne%20resort&qclid=EAIaIQobChMI8rLQntr33QIVDF8NCh2Gwqo7EAAAYASAAEgJs4PD\\_BwE](https://www.destinationhotels.com/lansdowne-resort/ppc/stay-and-swoon-over-fall?rt=google|cpc|LDR01-Lansdowne-Resort-Brand-DMV-15564-56429|lansdowne%20resort&qclid=EAIaIQobChMI8rLQntr33QIVDF8NCh2Gwqo7EAAAYASAAEgJs4PD_BwE)

Not scheduled, but if opportunity develops we will try to do an Iridium SNOC tour (currently SNOC has this period blocked out for new satellite launch and commissioning activity)

