



To SAI Subcommittee
GAT Working Group

Date March 26, 2018

From Peter Grau
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Reference 18-999/SMA-062 lth

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

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

When **June 11-13, 2018**
Monday through Wednesday from 0900 to 1700

Note: The SAI Subcommittee will meet June 14-15 at the same location. Refer to 18-999/SMA-063 for details.

Host FedEx is hosting the GAT Working Group meeting at their headquarters facility in Memphis, Tennessee.

Where Meeting Location
FedEx World Headquarters
3670 Hacks Cross Road, Bldg. G
Memphis, Tennessee 38125

Point of Contact
Robert Swanson
tel: 1-901-224-4678
email: robert.swanson@fedex.com

Security FedEx World Headquarters is a secure facility. All visitors must present a government-issued photo ID to the security desk at the time of entry. Arrive at the lobby 15 minutes prior to the meeting (0845) with a photo ID.

Hotels There are many hotels near the FedEx World Headquarters to meet your budget and comfort needs. A list is attached to this meeting announcement.

Instructions Please notify the Industry Activities staff of your intention to attend by registering online before **Friday, June 1** 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.

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.

At this meeting, work will commence on Phase 3 of APIM 17-004. This is to develop the characteristic that will specify equipment, interface, and aircraft installation requirements as well as ground system requirements.

ICAO Global Aeronautical Distress & Safety System (GADSS)

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

- Normal Tracking – All flight phases – 15-minute interval
- Abnormal Tracking – 1 Minute interval
- Autonomous Distress Tracking – High data rates

Technologies for consideration include Mode S, ADS-B, ADS-C, including space-based Datalink technologies, VHF, and satcom.

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 GADSS 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)

Future work on APIM 17-005 is anticipated as part of the overall work package. Following the ADT activity, 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.

**Activity
Scope**

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

**Travel
Information**

The FedEx World Headquarters is located about 14 miles East of the Memphis International Airport (MEM). Directions to FedEx are provided along with a map and a link that takes you to Google maps.

From Memphis Airport

1. Follow signs to Interstate Highway I-240 East
2. Follow I-240 East and TN-385 E (Bill Morris Parkway) for 11 miles to Winchester Road.
3. Take Winchester Road exit East for 1.5 miles to FedEx (approximately 1/3 mile past Hacks Cross Road)
4. Turn left and follow signs to FedEx Building G, Visitor's Parking

FedEx World Headquarters
3670 Hacks Cross Road, Bldg. G
Memphis, Tennessee 38125

[Click here for directions](#)

Attachment 1

**MEMPHIS HOTELS
NEAR FEDEX WORLD HEADQUARTERS**

Hampton Inn Memphis-Southwind
3579 Hacks Cross Rd, Memphis, TN 38125
(901) 754-8454
www.hamptoninn3.hilton.com

Candlewood Suites Memphis
7950 Centennial Dr, Memphis, TN 38125
(901) 755-0877
www.ihg.com

Holiday Inn Express & Suites Memphis Southwind
4068 Stansell Ct, Memphis, TN 38125
(901) 309-6474
www.ihg.com

@Home Inn and Suites
7967 Lowrance Rd, Memphis, TN 38125
(901) 756-5551
www.athomesuites.net

Hyatt Place Memphis/Germantown
9161 Winchester Rd, Germantown, TN 38138
(901) 759-1174
<https://germantown.place.hyatt.com/en/hotel/home.html>

Fairfield Inn & Suites by Marriott Memphis Germantown
9320 Poplar Pike, Germantown, TN 38138
(901) 757-9100
www.marriott.com

Residence Inn by Marriott Memphis Germantown
9314 Poplar Pike, Germantown, TN 38138
(901) 752-0900
www.marriott.com

Attachment 2

FEDEX WORLD HEADQUARTERS

