



You Are Invited!

2016 FAA Streamlining Assurance Processes Workshop

Renaissance Dallas Richardson Hotel

900 E. Lookout Drive

Richardson, TX 75082

September 13 - 15, 2016

The Federal Aviation Administration is pleased to invite you to the 2016 FAA Streamlining assurance Processes Workshop.

The Workshop will introduce the concept of streamlining to assurance process activities and explore the concept with discussions on:

- Process-based assurance
- Technique-independent Guidance
- Application of Standards

In addition, the Workshop will present the latest information on:

- Select topics in Systems, Software, and Airborne Electronic Hardware
- Regulatory policy and guidance updates
- Current research tasks

2016 Workshop Schedule

Tuesday	September 13	General Session	8:00 am – 5:00 pm
Wednesday	September 14	General Session	8:00 am – 5:00 pm
Thursday	September 15	Breakout Sessions and Discussion Forums	8:00 am – 4:00 pm

Registration

- Attendance at the Workshop will be limited to the first 350 responders.
- While there is no fee to attend, you must register in advance and no later than August 29, 2016. Instructions for registration may be found on page [3](#).

Hotel, Transportation, and Parking Information

- Hotel, transportation, and parking information may be found on page [4](#) of this Invitation.

Agenda

A draft agenda accompanies this Invitation on page [5](#). Since the agenda is subject to change, please visit this website for the most current agenda:

http://www.faa.gov/aircraft/air_cert/design_approvals/air_software/conference

Designee Recurrent Training Credit

Designees holding Software-only and/or AEH-only approval authority will receive recurrent training credit by attending this Workshop. Credit will not be given to designees holding other authority or to those holding Software and/or AEH if they also hold additional authorities.

We look forward to your participation.

Barbara Lingberg

Federal Aviation Administration

Software and Airborne Electronic Hardware Team Lead

AIR-100 Design, Manufacturing, and Airworthiness Division

WORKSHOP REGISTRATION INSTRUCTIONS

TO REGISTER:

- Go to: <https://av-info.faa.gov/DsgReg/sections.aspx>
- Click the “**Login**” tab
- **Login**: Enter username and password
- Read and click “**I Accept the DRS Rules of System Use**”
- Click “**Design Manufacturing and Airworthiness**”
- Click “**2016 FAA Streamlining Assurance Processes Workshop**”
- Click “**Go to Section**” which is near the bottom of the page
- Click “**Enroll**”
- The “Enrollment Results” page will show that “You are now enrolled In 2016 FAA Streamlining Assurance Processes Workshop”
- You will also receive an email that says you are confirmed in the 2016 FAA Streamlining Assurance Processes Workshop in Richardson, TX on 9/13-15/2016

Certificate and evaluation links will be emailed after completing the Workshop.

HOTEL, TRANSPORTATION, AND PARKING INFORMATION

Hotel Reservations

The Renaissance Dallas Richardson Hotel has blocked sleeping rooms at a special rate of \$125.00 per night (plus tax) for Workshop attendees. Be sure to make your reservations at the hotel while these rooms are available. The cutoff date for reservations at this special rate is **August 15, 2016**. For hotel reservations:

❖ By internet:

- ❖ [Book your group rate for FAA Streamlining Assurance Processes Workshop 2016](#)

❖ By phone: call 1 (800) 264-0359

Transportation

The Renaissance Dallas Richardson Hotel is approximately 25 miles from Dallas Fort Worth (DFW) International Airport and 17 miles from Dallas Love Field (DAL). Multiple transportation options exist:

Blue Shuttle ~\$25-30 one way

DFW <http://www.supershuttle.com/Locations/DallasDFW>

DAL <http://www.supershuttle.com/Locations/DallasDAL>

❖ DART Rail \$2.50 one way or \$5.00 all-day pass

<https://www.dart.org/>

DFW or DAL on Orange/Red Line to Galatyn Park Station

<https://www.dart.org/>

❖ Taxi

Estimated taxi fare one way:

DFW \$45

DAL \$25

Parking

Self-parking at the Renaissance Dallas Richardson Hotel for Workshop attendees is free for Workshop attendees, both local and those staying overnight.

DRAFT AGENDA

FAA Streamlining Assurance Processes Workshop

**Renaissance Dallas Richardson Hotel
Richardson, TX**

September 13 - 15, 2016

AGENDA

Tuesday	General Session
0800 - 0805	Welcome - Overview and Logistics
0805 - 0845	FAA Opening Remarks
0845 - 0930	Streamlining Processes – Where We Are and Where We’re Headed
0930 - 1000	BREAK
1000 - 1045	International Authority Vision
1045 - 1130	Industry Insight
1130 - 1300	LUNCH
1300 - 1445	Meta Objectives - Inside Out and Upside Down
1445 - 1515	BREAK
1515 - 1645	Panel Discussion: Meta Objectives – First Thoughts and Gut Feel
1645 - 1700	Day 1 Wrap Up

Wednesday	General Session
0800 - 0815	Strategic Plan
0815 - 0855	Systems and IMA Guidance
0855 - 0930	Process Approval Guidance
0930 - 1000	BREAK
1000 - 1045	AEH Guidance
1045 - 1130	Software Guidance
1130 - 1300	LUNCH
1300 - 1445	Panel Discussion: The Fate of Standards - Where Do Standards Stand?
1445 - 1515	BREAK
1515 - 1545	Designee Criteria
1545 - 1615	FAA-wide Approvals
1615 - 1645	Changes to the ARPs – What’s Planned for ARP 4761 and 4754
1645 - 1700	Day 2 Wrap Up

Thursday	<i>Research and Development</i>	<i>Research and Development</i>	<i>Research and Development</i>
0800 - 0900	Meta Objective Ties to DO-178C	Embedded Controllers	System Level Assurance of AEH
0900 - 1000	Meta Objectives - Use Cases and Assurance Cases	Multi-core Processors	Programmable Logic Device Tool Qualification
1000 – 1030	BREAK		
1030 - 1130	Virtual Machines	COTS Intellectual Property	Commodity Memory
1130 - 1300	LUNCH		
Thursday	<i>Discussion Forums</i>	<i>Discussion Forums</i>	<i>Research and Development</i>
1300 - 1430	Meta Objectives and Guidance – Where Do We Go from Here?	When should ARP 4754A apply?	System Complexity Effects on Aircraft Safety
1430 - 1600	Meta Objectives and Guidance – Where Do We Go from Here? (cont)	When should ARP 4754A apply? (cont)	Integration of Complex Digitally Intensive Systems
1600	Workshop Ends		