Integrating UAS into the U.S. National Airspace System

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Operations
- Civil UAS Operations
  - Type Certification, § 21.17(b) (Draft Advisory Circular)
  - Experimental Airworthiness Certificates (Expanded DAR program)
  - 333 Exemptions
  - Certificate of Waiver or Authorization
- Public UAS Operations
  - Certificate of Waiver or Authorization (COA)
  - Online application
  - Most processed <60 days
- Model Aircraft Operations
  - Hobby or recreational use only

Regulatory Actions
- Section 333 Exemptions
  - Bridge to small rule
  - Robust interest
  - FAA streamlining process
- FAA Small UAS Rulemaking
  - NPRM Published
  - Comments due April 24, 2015
- Special Rule for Model Aircraft (Section 336)
  - FAA Interpretive Rule published June 25, 2014

UAS Test Sites
- Site specific UAS DARs designated to issue A/W Certificates.
  - University of Alaska
  - North Dakota Department of Commerce
  - Texas A&M University Corpus Christi
  - State of Nevada
  - New York’s Griffiss International Airport
  - Virginia Polytechnic Institute & State University

Key Organizations
- Congress
  - FAA Modernization and Reform Act of 2012 – Sections 331-336
- ExCom
  - FAA, DoD, NASA, DHS
- UAS Strategic Working Group
  - Advances cross-Agency UAS integration activities
- FAA UAS Integration Office
  - Agency focal point for all things UAS

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

UAS Integration Strategy
- UAS Comprehensive Plan
- UAS Roadmap
- UAS Integration Office
- FAA UAS Strategic Working Group

FAA UAS Roadmap
- National Airspace System
- Industry & International Engagement
- UAS Operations
- Communication and Outreach
- Regulatory Actions
- Key Organizations

ICAO RPAS Symposium 2015

Federal Aviation Administration
Integrating UAS into the U.S. National Airspace System

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Roadmap

UAS Comprehensive Plan

UAS Integration Strategy

Small UAS Rule

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificate of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only

Regulatory Actions

Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014

UAS Test Sites
- University of Alaska
- North Dakota Department of Commerce
- Texas A&M University Corpus Christi
- State of Nevada
- New York’s Griffiss International Airport
- Virginia Polytechnic Institute & State University

FAA UAS Integration Office
Agency focal point for all things UAS

Key Organizations

Congress
FAA Modernization and Reform Act of 2012 – Sections 331-336

ExCom
FAA, DoD, NASA, DHS

UAS Strategic Working Group
Advances cross-Agency UAS integration activities

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

UAS Strategic Working Group
Advances cross-Agency UAS integration activities
Integrating UAS into the U.S. National Airspace System

UAS Comprehensive Plan

UAS Roadmap

Small UAS Rule

UAS Integration Strategy

ICAO RPAS Symposium 2015
Integrating UAS into the U.S. National Airspace System

UAS Integration Strategy

UAS Comprehensive Plan

UAS Roadmap

Small UAS Rule
Integrating UAS into the U.S. National Airspace System

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificate of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only

Regulatory Actions

Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014

UAS Test Sites
- Site specific UAS DARs designated to issue A/W Certificates.
  - University of Alaska
  - North Dakota Department of Commerce
  - Texas A&M University Corpus Christi
  - State of Nevada
  - New York’s Griffiss International Airport
  - Virginia Polytechnic Institute & State University

Key Organizations

Congress
- FAA Modernization and Reform Act of 2012 – Sections 331-336

ExCom
- FAA, DoD, NASA, DHS

UAS Strategic Working Group
- Advances cross-Agency UAS integration activities

FAA UAS Integration Office
- Agency focal point for all things UAS

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

ICAO RPAS Symposium 2015
Integrating UAS into the U.S. National Airspace System

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificate of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only

Regulatory Actions

Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014

UAS Test Sites
- University of Alaska
- North Dakota Department of Commerce
- Texas A&M University Corpus Christi
- State of Nevada
- New York’s Griffiss International Airport
- Virginia Polytechnic Institute & State University

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

Key Organizations

Congress
FAA Modernization and Reform Act of 2012 – Sections 331-336

ExCom
FAA, DoD, NASA, DHS

UAS Strategic Working Group
Advances cross-Agency UAS integration activities

FAA UAS Integration Office
Agency focal point for all things UAS
Integrating UAS into the U.S.
National Airspace System

Key Organizations

Congress
FAA Modernization and Reform Act of 2012 – Sections 331-336

ExCom
FAA, DoD, NASA, DHS

UAS Strategic Working Group
Advances cross-Agency UAS integration activities

FAA UAS Integration Office
Agency focal point for all things UAS
Integrating UAS into the U.S. National Airspace System

Key Organizations

Congress
FAA Modernization and Reform Act of 2012 – Sections 331-336

ExCom
FAA, DoD, NASA, DHS

UAS Strategic Working Group
Advances cross-Agency UAS integration activities

FAA UAS Integration Office
Agency focal point for all things UAS
Integrating UAS into the U.S. National Airspace System

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only

Regulatory Actions

Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014

UAS Test Sites
Site specific UAS DARs designated to issue A/W Certificates.
- University of Alaska
- North Dakota Department of Commerce
- Texas A&M University Corpus Christi
- State of Nevada
- New York’s Griffiss International Airport
- Virginia Polytechnic Institute & State University

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Roadmap

UAS Comprehensive Plan

UAS Integration Strategy

UAS Strategic Working Group
Advances cross-Agency UAS integration activities

Key Organizations
- Congress
  FAA Modernization and Reform Act of 2012 – Sections 331-336
- ExCom
  FAA, DoD, NASA, DHS
- FAA UAS Integration Office
  Agency focal point for all things UAS

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

ICAO RPAS Symposium 2015
Integrating UAS into the U.S. National Airspace System

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only

Regulatory Actions

Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014

UAS Test Sites
- Site specific UAS DARs designated to issue A/W Certificates.
  - University of Alaska
  - North Dakota Department of Commerce
  - Texas A&M University Corpus Christi
  - State of Nevada
  - New York’s Griffiss International Airport
  - Virginia Polytechnic Institute & State University

Key Organizations
- Congress
  - FAA Modernization and Reform Act of 2012 – Sections 331-336
- ExCom
  - FAA, DoD, NASA, DHS
- UAS Strategic Working Group
  - Advances cross-Agency UAS integration activities
- FAA UAS Integration Office
  - Agency focal point for all things UAS

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

UAS Integration Strategy

UAS Roadmap

UAS Comprehensive Plan

Small UAS Rule

FAA UAS Integration Office
Agency focal point for all things UAS
### Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

### Public UAS Operations
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

### Model Aircraft Operations
- Hobby or recreational use only
Integrating UAS into the U.S. National Airspace System

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only
Integrating UAS into the U.S. National Airspace System

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only

Regulatory Actions

Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014

Key Organizations

Congress
FAA Modernization and Reform Act of 2012 – Sections 331-336

ExCom
FAA, DoD, NASA, DHS

UAS Strategic Working Group
Advances cross-Agency UAS integration activities

FAA UAS Integration Office
Agency focal point for all things UAS

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

UAS Test Sites
Site specific UAS DARs designated to issue A/W Certificates.
- University of Alaska
- North Dakota Department of Commerce
- Texas A&M University Corpus Christi
- State of Nevada
- New York’s Griffiss International Airport
- Virginia Polytechnic Institute & State University
Integrating UAS into the U.S. National Airspace System

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only

Regulatory Actions

Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014

Key Organizations

Congress
FAA Modernization and Reform Act of 2012 – Sections 331-336

ExCom
FAA, DoD, NASA, DHS

UAS Strategic Working Group
Advances cross-Agency UAS integration activities

FAA UAS Integration Office
Agency focal point for all things UAS

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

UAS Test Sites
Site specific UAS DARs designated to issue A/W Certificates.
- University of Alaska
- North Dakota Department of Commerce
- Texas A&M University Corpus Christi
- State of Nevada
- New York’s Griffiss International Airport
- Virginia Polytechnic Institute & State University

ICAO RPAS Symposium 2015
Integrating UAS into the U.S. National Airspace System

Regulatory Actions

**Section 333 Exemptions**
- Bridge to small rule
- Robust interest
- FAA streamlining process

**FAA Small UAS Rulemaking**
- NPRM Published
- Comments due April 24, 2015

**Special Rule for Model Aircraft (Section 336)**
- FAA Interpretive Rule published June 25, 2014
Integrating UAS into the U.S. National Airspace System

Regulatory Actions

Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014
Integrating UAS into the U.S. National Airspace System

**Communication and Outreach**
- *Know Before You Fly* Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

**UAS Operations**

**Civil UAS Operations**
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

**Public UAS Operations**
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

**Model Aircraft Operations**
- Hobby or recreational use only

**Regulatory Actions**

**Section 333 Exemptions**
- Bridge to small rule
- Robust interest
- FAA streamlining process

**FAA Small UAS Rulemaking**
- NPRM Published
- Comments due April 24, 2015

**Special Rule for Model Aircraft (Section 336)**
- FAA Interpretive Rule published June 25, 2014

**UAS Test Sites**
- Site specific UAS DARs designated to issue A/W Certificates
  - University of Alaska
  - North Dakota Department of Commerce
  - Texas A&M University Corpus Christi
  - State of Nevada
  - New York’s Griffiss International Airport
  - Virginia Polytechnic Institute & State University

**Key Organizations**
- Congress
  - FAA Modernization and Reform Act of 2012 – Sections 331-336
- ExCom
  - FAA, DoD, NASA, DHS
- UAS Strategic Working Group
  - Advances cross-Agency UAS integration activities
- FAA UAS Integration Office
  - Agency focal point for all things UAS

**Industry & International Engagement**
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

**UAS Integration Strategy**
- FAAs UAS Roadmap
- Comprehensive Plan
- Integration Strategy

**UAS Integration**
- Communication and Outreach
- Regulatory Actions
- UAS Test Sites
- Industry & International Engagement
- Key Organizations

**ICAO RPAS Symposium 2015**
Integrating UAS into the U.S. National Airspace System

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

Regulatory Actions
- Section 333 Exemptions
  - Bridge to small rule
  - Robust interest
  - FAA streamlining process
- FAA Small UAS Rulemaking
  - NPRM Published
  - Comments due April 24, 2015
- Special Rule for Model Aircraft (Section 336)
  - FAA Interpretive Rule published June 25, 2014

UAS Operations
- Civil UAS Operations
  - Type Certification, § 21.17(b) (Draft Advisory Circular)
  - Experimental Airworthiness Certificates (Expanded DAR program)
  - 333 Exemptions
  - Certificate of Waiver or Authorization
- Public UAS Operations
  - Certificates of Waiver or Authorization (COA)
  - Online application
  - Most processed <60 days
- Model Aircraft Operations
  - Hobby or recreational use only

UAS Test Sites
- Site specific UAS DARs designated to issue A/W Certificates
  - University of Alaska
  - North Dakota Department of Commerce
  - Texas A&M University Corpus Christi
  - State of Nevada
  - New York’s Griffiss International Airport
  - Virginia Polytechnic Institute & State University

Key Organizations
- Congress
  - FAA Modernization and Reform Act of 2012 – Sections 331-336
- ExCom
  - FAA, DoD, NASA, DHS
- UAS Strategic Working Group
  - Advances cross-Agency UAS integration activities
- FAA UAS Integration Office
  - Agency focal point for all things UAS

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development
UAS Test Sites

Site specific UAS DARs designated to issue A/W Certificates

- University of Alaska
- North Dakota Department of Commerce
- Texas A&M University Corpus Christi
- State of Nevada
- New York’s Griffiss International Airport
- Virginia Polytechnic Institute & State University
Integrating UAS into the U.S. National Airspace System

UAS Test Sites

*Site specific UAS DARs designated to issue A/W Certificates*

- University of Alaska
- North Dakota Department of Commerce
- Texas A&M University Corpus Christi
- State of Nevada
- New York’s Griffiss International Airport
- Virginia Polytechnic Institute & State University
ICAO RPAS Symposium 2015

Integrating UAS into the U.S. National Airspace System

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only

Regulatory Actions
Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014

Key Organizations

Congress
FAA Modernization and Reform Act of 2012 – Sections 331-336

ExCom
FAA, DoD, NASA, DHS

UAS Strategic Working Group
Advances cross-Agency UAS integration activities

FAA UAS Integration Office
Agency focal point for all things UAS

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

UAS Test Sites
Site specific UAS DARs designated to issue A/W Certificates
- University of Alaska
- North Dakota Department of Commerce
- Texas A&M University Corpus Christi
- State of Nevada
- New York’s Griffiss International Airport
- Virginia Polytechnic Institute & State University
Integrating UAS into the U.S. National Airspace System

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only

Regulatory Actions

Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014

UAS Test Sites
- Site specific UAS DARs designated to issue A/W Certificates
  - University of Alaska
  - North Dakota Department of Commerce
  - Texas A&M University Corpus Christi
  - State of Nevada
  - New York’s Griffiss International Airport
  - Virginia Polytechnic Institute & State University

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

Key Organizations

Congress
- FAA Modernization and Reform Act of 2012 – Sections 331-336

ExCom
- FAA, DoD, NASA, DHS

UAS Strategic Working Group
- Advances cross-Agency UAS integration activities

FAA UAS Integration Office
- Agency focal point for all things UAS

ICAO RPAS Symposium 2015

Federal Aviation Administration
Integrating UAS into the U.S. National Airspace System

Communication and Outreach

- *Know Before You Fly* Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)
Integrating UAS into the U.S. National Airspace System

Communication and Outreach

- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)
Integrating UAS into the U.S. National Airspace System

Communication and Outreach

- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only

Regulatory Actions

Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014

Key Organizations

Congress
FAA Modernization and Reform Act of 2012 – Sections 331-336

ExCom
FAA, DoD, NASA, DHS

UAS Strategic Working Group
Advances cross-Agency UAS integration activities

FAA UAS Integration Office
Agency focal point for all things UAS

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

UAS Test Sites
Site specific UAS DARs designated to issue A/W Certificates.
- University of Alaska
- North Dakota Department of Commerce
- Texas A&M University Corpus Christi
- State of Nevada
- New York’s Griffiss International Airport
- Virginia Polytechnic Institute & State University

Integrated UAS into the U.S. National Airspace System

UAS Roadmap

UAS Comprehensive Plan

Small UAS Rule

UAS Integration Strategy

FAA RPAS Symposium 2015

Federal Aviation Administration
Integrating UAS into the U.S. National Airspace System

Communication and Outreach
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

UAS Operations

Civil UAS Operations
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

Public UAS Operations
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

Model Aircraft Operations
- Hobby or recreational use only

Regulatory Actions

Section 333 Exemptions
- Bridge to small rule
- Robust interest
- FAA streamlining process

FAA Small UAS Rulemaking
- NPRM Published
- Comments due April 24, 2015

Special Rule for Model Aircraft (Section 336)
- FAA Interpretive Rule published June 25, 2014

UAS Test Sites
Site specific UAS DARs designated to issue A/W Certificates.
- University of Alaska
- North Dakota Department of Commerce
- Texas A&M University Corpus Christi
- State of Nevada
- New York’s Griffiss International Airport
- Virginia Polytechnic Institute & State University

Key Organizations

Congress
FAA Modernization and Reform Act of 2012 – Sections 331-336

ExCom
FAA, DoD, NASA, DHS

UAS Strategic Working Group
Advances cross-Agency UAS integration activities

FAA UAS Integration Office
Agency focal point for all things UAS

Industry & International Engagement
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

UAS Integration Strategy

UAS Comprehensive Plan

FAA Media Outreach
FAA UAS Integration Office Website (www.faa.gov/uas)

Communication
- FAA UAS Integration Office

UAS Integration
- FAA UAS Integration Office
- Agency focal point for all things UAS

Industry & International Engagement
- FAA UAS Integration Office
- FAA UAS Integration
- FAA UAS Integration Office
- FAA UAS Integration Office
- FAA UAS Integration Office
Industry & International Engagement

- UAS Aviation Rulemaking Committee – *Informs FAA Rulemaking Approach*
- RTCA Special Committee 228 – *Industry design standards for Detect and Avoid and Command and Control systems*
- ASTM International Committee (F38) – *Industry standards for small UAS*
- UAS Center of Excellence (future) – *Short- and long-term UAS research*
- ICAO – *International UAS Standards Development*
- JARUS – *International UAS Standards Development*
Integrating UAS into the U.S. National Airspace System

Industry & International Engagement

- UAS Aviation Rulemaking Committee – *Informs FAA Rulemaking Approach*
- RTCA Special Committee 228 – *Industry design standards for Detect and Avoid and Command and Control systems*
- ASTM International Committee (F38) – *Industry standards for small UAS*
- UAS Center of Excellence (future) – *Short- and long-term UAS research*
- ICAO – *International UAS Standards Development*
- JARUS – *International UAS Standards Development*
Integrating UAS into the U.S. National Airspace System

**Communication and Outreach**
- **Know Before You Fly** Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)

**UAS Operations**

**Civil UAS Operations**
- Type Certification, § 21.17(b) (Draft Advisory Circular)
- Experimental Airworthiness Certificates (Expanded DAR program)
- 333 Exemptions
- Certificate of Waiver or Authorization

**Public UAS Operations**
- Certificates of Waiver or Authorization (COA)
- Online application
- Most processed <60 days

**Model Aircraft Operations**
- Hobby or recreational use only

**Regulatory Actions**

**Section 333 Exemptions**
- Bridge to small rule
- Robust interest
- FAA streamlining process

**FAA Small UAS Rulemaking**
- NPRM Published
- Comments due April 24, 2015

**Special Rule for Model Aircraft (Section 336)**
- FAA Interpretive Rule published June 25, 2014

**UAS Test Sites**
- Site specific UAS DARs designated to issue A/W Certificates.
  - University of Alaska
  - North Dakota Department of Commerce
  - Texas A&M University Corpus Christi
  - State of Nevada
  - New York’s Griffiss International Airport
  - Virginia Polytechnic Institute & State University

**UAS Roadmap**
- UAS Comprehensive Plan
- UAS Integration Strategy
- Small UAS Rule

**Key Organizations**

**Congress**
- FAA Modernization and Reform Act of 2012 – Sections 331-336

**ExCom**
- FAA, DoD, NASA, DHS

**UAS Strategic Working Group**
- Advances cross-Agency UAS integration activities

**FAA UAS Integration Office**
- Agency focal point for all things UAS

**Industry & International Engagement**
- UAS Aviation Rulemaking Committee – Informs FAA Rulemaking Approach
- RTCA Special Committee 228 – Industry design standards for Detect and Avoid and Command and Control systems
- ASTM International Committee (F38) – Industry standards for small UAS
- UAS Center of Excellence (future) – Short- and long-term UAS research
- ICAO – International UAS Standards Development
- JARUS – International UAS Standards Development

**UAS Integration Strategy**
- FAA media outreach
- FAA UAS Integration Office website (www.faa.gov/uas)
- Know Before You Fly Outreach Campaign (FAA/Industry)
- Law Enforcement Guidance
- FAA Media Outreach
- FAA UAS Integration Office Website (www.faa.gov/uas)