

CAAT CONSORTIUM MEMBERSHIP INTEREST FORM

Version: _____ Date: ____/____/_____

PURPOSE

Capture an organization’s basic information and capabilities to support a follow on information meeting about CAAT Consortium membership.

INSTRUCTIONS

Complete all sections. If a section does not apply, enter “N/A.” Attach supporting evidence where noted.

1) ORGANIZATION PROFILE

Organization Legal Name: _____

Common Name / Acronym: _____

Organization Type (check all that apply):

Industry Academic Government Non-profit SLTT Other: _____

Headquarters (City/State/Country): _____

Primary Work Locations / Facilities (City/State): _____

Website: _____

2) POINTS OF CONTACT

Primary POC

Name/Title: _____

Email/Phone: _____

Area(s) of Expertise: _____

Alternate POC(s)

Name/Title/Email/Phone: _____

3) CAPABILITY SUMMARY (SNAPSHOT)

Elevator Pitch (3–5 sentences):

Top 5 Differentiators / Unique Value:

1. _____
2. _____
3. _____
4. _____
5. _____

Top 5 Capability Areas You Want to Be Tagged For (from Section 6):

1. _____ 2. _____
3. _____ 4. _____
5. _____

Geographic Reach (where you can execute work):

4) CAAT CAPABILITY TAXONOMY (SELECT + DESCRIBE)

Instructions: Check what you can do and provide details in Section 7 (Capability Records).

4.1 Airspace & Operations

- Airspace analysis / CONOPS / procedures (VFR/IFR, low-altitude corridors, etc.)
- ATC integration support / NAS operations analysis
- Surveillance solutions (cooperative/non-cooperative)
- Communications solutions (data/voice modernization, cellular/satcom integration)

- Information exchange protocols / data standards / interoperability
- UTM / low-altitude traffic management services, tools, or evaluation
- Flight ops planning, dispatch, route design, performance modeling

4.2 Infrastructure (Vertiports, Airports, Energy, CNS/PNT, Weather)

- Vertiport planning/design support (site selection, layout, safety areas)
- Airport/heliport modification planning / operational readiness
- Energy infrastructure planning (charging, hydrogen, grid interconnect, microgrids)
- Spectrum/CNS planning support
- Complementary PNT solutions / resilience (anti-jam, alt PNT)
- Low-altitude weather sensing/forecasting networks and integration
- Ground support equipment, maintenance facilities, hangars

4.3 Security & Resilience

- Threat/risk assessments and security concept development
- Cybersecurity engineering and assurance (avionics, ground, comms)
- Supply chain risk management / resilience analysis
- Vetting/screening concepts for passenger/cargo ops (as applicable)
- Privacy impact support / PII handling controls

4.4 Community Planning & Public Acceptance

- Community engagement planning and execution
- Noise analysis / mitigation strategies / measurement campaigns
- Equity/accessibility planning
- Local land use/zoning and stakeholder coordination support

- Environmental planning support (as applicable)

4.5 Workforce & Training

- Pilot/operator training development
- Maintainer/technician training pipelines
- Remote pilot / autonomy supervisor training concepts
- Curriculum development with academic partners
- Workforce research, job-task analysis, credentialing support

4.6 Automation / Autonomy / AI

- Autonomy stack development/integration
- Detect-and-avoid (DAA) R&D, test, evaluation
- Human factors (HMI, workload, trust, training)
- Simulation, digital twins, synthetic data, scenario generation
- AI assurance / verification & validation approaches
- Swarm/coordination behaviors (if applicable)

4.7 Test, Evaluation, Demonstrations, Data

- Test planning & execution (ground/flight)
- Instrumentation & telemetry; test range ops
- Safety case development support (arguments, evidence, hazard analysis)
- Data collection, labeling, analytics, dashboards
- Independent verification & validation (IV&V)
- Demonstration planning (stakeholders, metrics, reporting)

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ACRONYM GLOSSARY

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8(a) — SBA 8(a) Business Development Program

AC — Advisory Circular (FAA guidance)

AAM — Advanced Air Mobility

ARI — Autonomy Research Institute

ARO — After Receipt of Order

ARP — Aerospace Recommended Practice (SAE)

ARP4754A — SAE ARP4754A (Civil aircraft/systems development guidelines)

ARP4761 — SAE ARP4761 (Safety assessment process)

AS9100 — Aerospace quality management standard

ASTM — ASTM International (standards organization)

ATC — Air Traffic Control

CAAT — Center for Advanced Aviation Technology

CAGE — Commercial and Government Entity (code)

CMMC — Cybersecurity Maturity Model Certification

CNS — Communications, Navigation, and Surveillance

CONOPS — Concept of Operations

CRADA — Cooperative Research and Development Agreement

CUI — Controlled Unclassified Information

DAA — Detect and Avoid

EAR — Export Administration Regulations

EHS — Environmental, Health, and Safety

FAA — Federal Aviation Administration

GCS — Ground Control Station

GSA — General Services Administration

HMI — Human–Machine Interface

HUBZone — Historically Underutilized Business Zone

IDIQ — Indefinite Delivery, Indefinite Quantity

IP — Intellectual Property

ITAR — International Traffic in Arms Regulations

IV&V — Independent Verification and Validation

MAS — Multiple Award Schedule (GSA)

MRL — Manufacturing Readiness Level

NAICS — North American Industry Classification System

NAS — National Airspace System

NCAGE — NATO Commercial and Government Entity (code)

NIST — National Institute of Standards and Technology

OTA — Other Transaction Authority / Other Transaction Agreement (context dependent)

PII — Personally Identifiable Information

PNT — Positioning, Navigation, and Timing

QA — Quality Assurance

R&D — Research and Development

SAM.gov / SAM — System for Award Management

SBIR — Small Business Innovation Research

SDVOSB — Service-Disabled Veteran-Owned Small Business

SLTT — State, Local, Tribal, and Territorial (governments)

SME — Subject Matter Expert

SMS — Safety Management System

SOC 2 — System and Organization Controls 2

TRL — Technology Readiness Level

UEI — Unique Entity Identifier

UTM — Uncrewed Aircraft System Traffic Management (often used for low-altitude traffic management)

VFR — Visual Flight Rules

WOSB — Women-Owned Small Business