



Advanced Programs Inc. - Corporate Headquarters

7125 Riverwood Drive, Columbia, MD 21046
Phone: 410-312-5800
Fax: 410-312-5850
Website: www.advprograms.com

API Cyber Assurance Services

7090 Columbia Gateway Drive, Suite 150
Columbia, MD, 21046
Phone: 410-312-5800
Fax: 410-312-5850
E-mail: apitestservices@advprograms.com

Europe and NATO

Phone: +44 (0) 7894 620707
E-mail: mgamble@advprograms.com

USA Sales

Phone: 410-312-5800
Phone: 410-312-5858
Phone: 410-312-5816
E-mail: sales@advprograms.com

USA Customer Service

Phone: 410-312-5866
E-mail: service@advprograms.com

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CYBER ASSURANCE SERVICES

Industry Leading TEMPEST/EMI Test, Design, & Production Support

YOUR INFORMATION ASSURANCE PARTNER

SERVING THE UNITED STATES & ALL NATO COUNTRIES



Technical Specifications are subject to change without notice
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CUSTOMERS

U.S. Intelligence Community | Unified U.S. Military Commands
U.K. Intelligence Community | Canada, Australia, New Zealand



QUALITY ASSURANCE

ISO 9001:2015

Advanced Programs, Inc. (API) offers a 15,000 square foot, state of the art, TEMPEST, EMI and test services lab facility called the Cyber Assurance Services lab or API CAS. API CAS is a fully independent test lab. The facility features seven certified TEMPEST and EMI shielded enclosure test chambers, one of which is a fully anechoic chamber. API CAS can provide certified personnel to meet the product development and compliance test needs for secure equipment manufacturers (OEMs) and system integrators. API CAS can support all or limited testing to the following standards:

TEMPEST TESTING & CONSULTING

- NSTISSAM TEMPEST 1-92
- CNSSAM TEMPEST 01-02 NONSTOP
- CNSSAM TEMPEST 1-13 RED/BLACK Installation Guidance
- NATO SDIP 27

MIL-STD 461 TESTING & CONSULTING

- Conducted emissions: CE101, CE102, CE106
- Conducted susceptibility: CS101, CS103, CS104, CS105, CS106, CS109, CS114, CS115, CS116
- Radiated emissions: RE101, RE102, RE103 (up to 40 GHz)
- Radiated susceptibility: RS101, RS103 (50 V/m up to 18 GHz, 200 V/m from 200 MHz to 18 GHz)
- CS118 ESD
- CS117 Lightning and RS105 EMP (Performed by our partner lab) at time of shipping, and special packaging to reduce shipping costs.

MIL-STD 810 - TEMPERATURE & HUMIDITY TESTING

- Temperature range from -73 ° C to + 175 ° C.
- Humidity ranges from 5 to 95 percent

SHIELDING EFFECTIVENESS, MATERIAL AND ENCLOSURE TESTING

- IEEE-299 -Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures
- MIL-STD 285- Method of measuring the attenuation characteristics of electromagnetic shielding enclosures used for electronic test purposes
- ASTM F3057-16 -Standard Test Method for Electromagnetic Shielding Effectiveness of Glazings (Lab Only)

COMMERCIAL EMC PRE-COMPLIANCE TESTING & CONSULTING

- FCC Part 15 Emissions
- EN55022/EN 55011 Emissions
- EN55024 Immunity
- EN 300-386 Immunity
- EN 61000-4-2 ESD
- EN 61000-4-3 Radiated Immunity
- EN 61000-4-4 EFT
- EN 61000-4-5 Lightning surge
- EN 61000-4-6 Conducted Immunity
- Various voltage dips, over-voltage and transient tests.

CYBER ASSURANCE SERVICES

API has a combined resource of 16 certified TEMPEST Test Chambers, over 1000 pieces of test equipment, the largest pool of Certified TEMPEST Professionals (CTPs) in the industry, and extensive electrical and mechanical cyber engineering resources averaging over 20 years of experience. API is the leading supplier of TEMPEST products and test services. API CAS can also provide iNARTE certified EMC professionals for your EMI/EMC design or test service needs.

In support of the U.S and NATO Intelligence and Defense community, API, directly and in partnership with others, designs, builds, certifies and sustains trusted solutions that our clients rely upon for mission critical performance. Our corporate commitment to quality is evident in all phases of product development. From testing and manufacturing, to program and lifecycle management, quality is our goal.

API has the credentials, means and personnel to support programs at all security levels. API CAS designed its new test facility to meet the challenging needs of clients who develop large complex systems. The CAS facility has convenient delivery, staging, storage, and lab access. Each test chamber area features a large ante-room with walled and locked privacy and each has abundant power, networking, and space to accommodate small to large multitrack test configurations. Each chamber also has independent temperature control.



Our certified staff can create your test plan, offer design guidance, conduct prototype or production unit pre-scans, perform full production sample testing, develop test reports, make recommendations, and perform post-production sample testing. For clients who need additional compliance support to multiple MIL or other industry standards, API seamlessly partners with industry leading recognized laboratories to streamline the compliance process and offer a full package solution for all your TEMPEST, EMI, Environmental, or other test needs. API can also perform project management throughout the compliance process to ensure a coordinated and timely completion.

API also offers secure manufacturing and assembly for system integrators and manufacturers. TEMPEST, EMI, ruggedized and mission customized systems have been our specialty for over 40 years. API produces over 20,000 cyber assured/hardened products annually. Our cost effective design, prototyping, testing and quality focused production has made API the leading global supplier of TEMPEST and cyber assured products.

To schedule a visit to API-CAS test facility or to simply learn more about our ability to assist call 410-312-5842 or e-mail apitestservices@advprograms.com.

