

OVERVIEW

Based in Gloucester, England, Secure Systems & Technologies (SST) designs and manufactures TEMPEST, EMC-rated, Rugged, Encryption and Communications Security equipment for Military and government organisations throughout NATO and Europe. This includes NATO agencies, Ministries of Defence, Ministries of Foreign Affairs, Defence Prime Contractors, and other Government agencies.

With skilled staff including a high percentage of engineers and TEMPEST industry specialists SST has built an enviable reputation for standard products and bespoke systems meeting the most rigorous Government and Military standards whilst maintaining ergonomic design and ease of use.

SST offers TEMPEST, EMC and rugged solutions largely based on 'best of breed' commercial off the shelf (COTS) equipment. With an In-house TEMPEST, EMC and Environmental testing capability as well as Prototyping and Manufacturing facilities, SST can provide fast and reliable turn-around times from design through to manufacture and installation.



For harsh, tactical environments SST Rugged Products are subject to stringent, rigorous testing and are designed and tested to conform to international Military Standards (MIL-STD 810) and UK Defence Standards (Def Stan 00-35), for use on land, sea or air platforms. The company maintains the necessary programme management resources to deliver turnkey military solutions and associated support.

As Subject Matter Experts, SST provides consultancy, training and testing services including TEMPEST and environmental certification and UK NSA endorsement support.

SST TEMPEST and EMC Test Facility Personnel have many years experience performing EMC and TEMPEST acceptance testing to Military Government Test Standards, on fixed and mobile platform installations.

BUSINESS ACTIVITIES

SST majors on four areas of business within the Information Assurance arena:

■ **TEMPEST:**

The design, manufacture and test of TEMPEST products: Examples are Computers, Thin clients, Laptops, Flat Screen Displays, Printers, Flatbed and mobile Scanners, Routers, Switches.



■ **Military Rugged:**

The design, manufacture and qualification of Military Rugged electronic hardware for wheeled and tracked vehicles, land deployed, airborne and naval installations.

■ **Security:**

Custom electronic equipment for Security customers including: communication products and crypto integration, removable media and secure interface options, mobile tactical wireless and satellite communications, mobile and deployable secure office solutions.



- **Services:** TEMPEST Design Authority, Consultancy, Training and Testing Services for customer's facilities, mobile platforms & 3rd party products.

GROUP STRUCTURE AND OVERVIEW

Specialist defence and security IT manufacturer Secure Systems & Technologies (SST) is part of the Secure Systems and Information Assurance Division of API Technologies Corp. which is listed on the NASDAQ (ATNY), employs around 2,500 people worldwide and reports revenues in excess of \$400 Million.

API Technologies Corp. designs, develops and manufactures systems, subsystems, RF and secure communications solutions for technically demanding defence, aerospace and commercial applications. The company's international customers include leading Fortune 500 companies as well as the governments of the U.S., Canada, the United Kingdom, NATO and European Union members, Australia and New Zealand.

We're involved in the essential work of developing hardware that is supplied directly and indirectly to Government security organisations and the Military around the world to ensure computing capability whatever the environment.

Locations



	Name	Location	Function
Corporate HQ	API Technologies Corp.	400 Nickerson Road, Marlborough, MA 01752	Group Headquarters
SST	Secure Systems & Technologies Ltd	Brunel Court, Waterwells, Gloucester, GL2 2AL, UK +44 1452 371999	Headquarters for Europe, R&D, Production, Test facilities, Sales and Support

ADMINISTRATIVE

Country of registration	United Kingdom
Legal status	Private Limited Company
VAT number (European CIES)	GB 800 5929 45
Registration number	04534093
Web site	www.sst.ws

ACCREDITATION

SST operates from a UK Government approved Secure Site. Its personnel are security cleared to UK SC or DV levels and a number are cleared to NATO Secret level.

Qualifications include:

- Registered on the UK Defence Contractors List, No: 22839
- NATO Basic Ordering Agreement (BOA), no. 9092
- Quality EN ISO 9001:2008 Certificate: FM 26798
- UK National TEMPEST Authority (CESG) Registered
- Approved Crypto Custodian
- TEMPEST Test cells approved by CESG (Facility Qualification)
- Advanced Category 4 Approved TEMPEST Testers

QUALITY AND RELIABILITY

SST demands the highest standard of Quality Assurance and Project Control and its Managers and Engineers are trained in tightly monitored Operating Procedures including Time, Resource and Cost Scheduling necessary to meet the challenging and ever evolving demands of our customers.

SST is a BSI registered company, assessed to EN ISO 9001:2008 and is working towards ISO 14000 Environmental Management standard.

PRODUCTION

SST operates from purpose built 2000+ m² (24,000 sq ft) facilities with all design, test and flexible manufacturing facilities on one site. As well as product manufacture, the site can accommodate ISO containers to enable integration work to be completed securely.

The concentration on core skills and capabilities together with a thorough understanding of all aspects of the specialised design, development, manufacture, testing and lifetime support of SST products enables a flexible approach to meet our customers varying requirements.

ENGINEERING STANDARDS

- TEMPEST: SDIP-27 Level A, Level B, Level C
- EMC: MIL-STD-461, Def Stan 59-41, Def Stan 59-411
- Rugged standards: MIL-STD-810, Def Stan 00-35, IEC 68-1, NEMA 250

RESEARCH & DEVELOPMENT

R&D policy

- To develop leading-edge products required to maintain our position as the preeminent manufacturer of TEMPEST products in Europe.
- To investigate methods, techniques and products for the enhancement of electromagnetic security and the physical robustness of data processing and communications equipment.
- To integrate cryptography into products and systems to extend the portfolio of secure products and services.
- To investigate the use of innovating materials and techniques for weight reduction and improvement in user experience.

R&D Main projects

- Development of advanced computer systems, protected notebook computers and essential peripherals to meet high-level TEMPEST requirements.
- Development of rugged products incorporating advanced power and heat management for Land, Air and Naval platforms.
- Refinement of field deployable computer and communications systems for improved survivability and ergonomics to meet high-level security and environmental requirements.
- Use of innovative function replication and remote management techniques for the improvement of COTS embedded military rugged and security hardware.

CONSULTANCY, TRAINING and SUPPORT

Specifically for the Communications and Electronic Security environment, SST provides experienced and knowledgeable Consultants, Project Managers and Trainers specialising in the fields of COMSEC and EMSEC.

Training Services are available at SST and at customer premises on TEMPEST design, test and installation, EMC and COMSEC.

Communications Security (COMSEC)

Systems Planning, Systems Integration, Communications, Project Management and the application of Cryptographic technology all form part of the Communications Security (COMSEC) Service which SST provides.

Emissions Security (EMSEC)

- TEMPEST: The SST Test Facility comprises five TEMPEST test cells, is CESG accredited and is staffed by some of the leading TEMPEST engineers in the UK.
- EMC: The SST Design & Test capability is capable of remedial engineering for Electromagnetic Compatibility of proprietary products as well as incorporating demanding EMC requirements into built solutions.
- EMP: SST can provide Engineering Services for Electromagnetic Pulse Protection (EMP), supported by the SST in-house design facility.

Security

SST offers a Security Consultancy service, providing training in a wide variety of subject areas including Risk Assessment, Risk Awareness, EMC, Architectural Building Shielding, TEMPEST Engineering and Installation Techniques.

Service and Maintenance

The SST policy is to provide warranty service at a level equal to or greater level than the Original Equipment Manufacturer (OEM) and can offer further Maintenance Contracts once any existing Warranties have expired.

The SST service centre is located in the UK with SST trained service partners throughout NATO. Experience of Obsolescence Management for our products on Military platforms ensures products are supportable for their deployed lifetime.