

DATA SYSTEMS TODAY

April 1997

Litton Completes SAIT Acquisition

On March 7, 1997, Litton Industries, Inc. completed its acquisition of SAI Technology. SAIT was a division of Science Applications International Corporation (SAIC) with annual sales of approximately \$90 million. SAIC is the largest employee-owned research and engineering company in the United States. Founded by a small group of scientists in 1969, SAIC currently has 22,704 employees, more than 350 locations world-wide and annual revenues exceeding \$2.2 billion.

SAIT was established in 1974 when the Army Security Agency contacted Science Applications International to inquire about the possibility of obtaining highly mobile and compact computer displays for downsized electronic warfare vehicles. SAIC formed a new division to develop and market a militarized computer terminal based on the plasma display flat panel technology invented at the University of Illinois. The new employees were ex-Motorola electronics engineers and display engineers from the University of Illinois.

The operation developed a variety of plasma display products for the military, such as the ground launch cruise missile control console, the communication console for the TACAMO aircraft and the U.S. Army Display Console designated the AN/UYQ-10. SAIT's growth continued, culminating in the award of the U.S. Army Lightweight Computer Unit (LCU) in 1990. By the mid-90's,



Lou Kelly, newly appointed Vice President and

General Manager of DSD-San Diego, delivered an address to employees at the 'Welcome to Litton' luncheon.

SAIT was the leading provider of flat displays and mobile computing technology to the Department of Defense. Two of the early pioneers from the University of Illinois continue to make significant contributions to SAIT's success—Roger Johnson and William Coates.

The acquisition process started in late October when Litton's Corporate acquisition team and members of Data Systems Division senior management went to San Diego to begin evaluating the feasibility of acquiring the SAIT division of SAIC. Once it was determined that SAIT's technology and systems

would be a good fit that would afford Litton more opportunities for growth in military, federal and commercial markets, personnel from each of Data Systems' functional organizations became involved in learning all they could from their counterparts at SAIT. Organizational structures and personnel requirements were analyzed so that employment offers could be prepared and extended. In the end, approximately 95% of the over 350 offers were accepted.

Meanwhile, negotiations continued as Litton Industries, Data Systems and SAIC senior management and their attorneys attempted to reach agreement on many complicated issues relating to such areas as personnel, facilities, intellectual rights, contracts and, of course, the acquisition price. Sessions during the final week of negotiation ran into the early morning hours as the two sides worked toward final resolution of all matters.

SAIT has been integrated into Litton's Data Systems Division located in Agoura Hills. The operation, now called Litton Data Systems Division-San Diego, continues to be based in San Diego, California. An off-site facility in the United Kingdom is staffed by 24 people.

Litton Data Systems-San Diego develops and markets computer products, flat panel displays, TCIM tactical modems and communications soft-

Introducing Litton

Who is Litton?

Litton is a defense-technology based 'Fortune 500' company headquartered in Woodland Hills, California and operating throughout the United States, Canada and Western Europe. Founded in 1953 as a small electronics firm, it now has over \$4 billion in sales and 35,000 employees worldwide. Its major business segments are Advanced Electronics and Marine Engineering and Production.

Who is Data Systems?

Data Systems Division, founded in 1961, is a major supplier of high-technology command and control systems to the U.S. military and the armed forces or friendly nations worldwide. Headquartered in Agoura Hills, California, the division has engineering centers in California and Mississippi and field offices serving U.S. and international markets. Data Systems is led by Division President Allen E. Powers and his executive staff: Duane Anderson, Vice President, Administration; John De Vere, Vice President, Program Management; Stephen Johns, Vice President, Operations; Frank Tullis, Vice President, Business Development; Dick George, Vice President, Engineering; Jim Arthur, Vice President, Contracts and Pricing; Tom

Kelly, Director, Human Resources; Bill Allison, Vice President and General Manager, Data Systems-Mississippi; and Lou Kelly, Vice President and General Manager, Data Systems-San Diego.

Data Systems has current sales of \$200 million and 1,150 employees. The division's major business units are Theater Air Systems, Rapid Deployment Systems, Naval Warfare Systems, International Systems, Advanced Systems and Recognition Systems.

Theater Air Systems provide mobile air and missile defense C2 systems and services through next generation air/missile defense, current system upgrades and system engineering, software and integration services. Major programs include the following.

Design, build and testing of the BMC3 (Battle Management Command) Tactical Operations Center for the THAAD (Theater High Altitude Air Defense) missile system. The TOC (Tactical Operations Center) integrates force operations, engagement control and communications.

MEADS (Medium Extended Air Defense Systems) and Corps SAM (Surface-to-Air Missile) Tactical Operations Centers which will replace international AN/TSO-73, ICC (Information and Coordination Center) and Patriot/HAWK control systems in the new BMC3 system to protect the U.S. Army against aircraft, UAV's (unmanned aerial vehicle), cruise missiles and TMBs.

The R/SAOC (Regional/Sector Air Operations Center) provides a DII COE (Defense Information Infrastructure Common Operating Environment) compliant processing and display system for the air defense of the United States and Canada. The R/SAOC system will integrate the existing radar networks to provide early warning, surveillance and weapons control functions.

AN/TYO-23 upgrades to provide USMC/USAF open architecture, modular, transportable, C2 systems for conducting a full range of tactical air defense operations. This program will provide upgrades and retrofit kits for 144 systems in service worldwide.

MTS (Modern Tracking System) to provide advanced radar tracking and sensor integration systems to USMC, USAF, Air National Guard and U.S. Navy.

Rapid Deployment Systems provide vehicle-mounted and man-portable tactical and C3 systems and products such as Handheld Terminals, Soldier/Leader C3 and Tactical Fire Support.

HTU development began in 1991 to replace DCT (Digital Communications Terminal) and provide a general purpose standard for the U.S. Army's CHS-2 program which was smaller, lighter and possessed significantly improved power, memory and networking capabilities. The CHS-2 contract was awarded in 1995. The HTU/DSSU (Dismounted Soldier System Unit) was used in the Force XXI Appliqué to provide an HTU for next-generation vehicle/dismounted soldier systems in high-priority Army digitization experiments and exercises. The HTU also provides for precision ground strike capability for U.S. Air Force close air support missions, interoperating with radio, range finder and GPS. It was successfully deployed in Bosnia in 1996. This program's success is leading to multiple opportunities with other systems and services.

Fire Support Systems are designed

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The Data Systems Division of Litton Industries is

headquartered in Agoura Hills, California. An engineering facility with approximately 350 employees is located in nearby Moorpark.

SAIT Welcome

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ware and also provides engineering technical services

Their line of computer products includes the Galaxy 1100 high performance UNIX workstation, the SAIC-3486 rugged, severe environment notebook computer, VIA2 LC high performance notebook computer, V2A2 LC Lightweight Computer Unit (LCU) and V2 Appliqué

Products such as color plasma display panels, sunlight and night readable LCD displays are gaining a growing share of military and commercial electronic display markets.

The TCIM family of tactical communications modems provides a modem-like interface for data transfer to unique military and tactical devices.



Duane Anderson, Vice President of Administration

(right), took advantage of the opportunity to get acquainted with some new Data Systems' employees.



Employees lined

up outside the main entrance to help themselves to pasta, salad and garlic bread.

It was a perfect day to enjoy an outdoor lunch.



Technical Services specialists provide expertise in such areas as networking and operating systems, hardware and software installation, systems migration, communications, and technology upgrades.

Under contracts valued in excess of \$400 million, their military programs provide rugged, portable computer and communications systems to the Army (Force XXI) and Navy (TAC-4). They offer the customer the latest in technology including 21st Century battlefield digitization, mobile client-server systems, modified COTS rugged hardware, deployable systems, command and control, missions planning, mobile medical monitoring and fire support.

On March 10, 1997, Data Systems officially welcomed their new employees with a delicious lunch of pasta, salad and garlic bread. It was a festive occasion with lots of 'Litton blue' balloons and cake and free Litton coffee mugs for all. Lou Kelly, Vice President and General Manager of Data Systems Division-San Diego, was introduced by DSD-SD Human Resources Director, Chris Carroll. Kelly briefly addressed the crowd, emphasizing how excited Data Systems is about this new partnership. San Diego lived up to its reputation and provided spectacular weather for the event. □

Litton

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to replace current systems with advanced technology terminals and upgraded software and provide fully automated Fire Support C2 systems for the maneuver forces of the U.S. Army, Reserves and U.S. Marine Corps.

Naval Warfare Systems provide integration and testing, interior and exterior communications and simulation and training capabilities.

Our products provide exterior and interior communications systems and combat simulation and training systems that integrate and test shipboard electronic suites on the LHD 1 "Wasp" Class Amphibious Assault Ship and furnish cooperative engagement capability (CEC) for the Arsenal Ship. Our AN/SSQ-33 systems provide software for automated exterior communications monitoring and control on Navy surface combatants

Developed in 1996, the PICT (Programmable Integrated Communications Terminal) allows a user-programmable voice terminal to integrate shipboard dial telephones, voice nets, intercoms, radios and surveillance camera video.

Realistic training for individual operators and combat systems teams through simulation of a shipboard combat system environment, using RF (radio frequency) stimulation of sensors and weapon systems, is supplied by the AN/SSQ-91 (V) Combat Simulation Test System.

Data Systems is expanding the marketing and sales of division products and services to foreign military and government customers in the **International Systems** arena. Our **Lightweight Tactical Artillery System** has been part of a successful pilot program in Taiwan since 1993 and is currently undergoing in-country trials in Kuwait. A contract was awarded in late 1996 to provide two Mobile Tactical Air C2 Systems for Italian Air Force in-country and expeditionary forces. AN/TSQ-73 'Missile Minder' Upgrades will provide mobile air-defense missile-fire distribution C2 systems. A system based on the Korean Naval Tactical Data System (KNTDS) can provide coastal surveillance and defense network to allied navies. The modern distributed processing architecture links seaborne, airborne and land-based sensors and communications.

Our **Advanced Systems** develop and transition BMC3 (Battle Management/Command, Control, and Communications) technology and provide systems software support and migration services. We are researching, studying and developing leading-edge technologies for timely insertion into the present product base as well as applications for future products and systems.

Our advanced electronic manuals and computer-based interactive training software hosted on ruggedized

commercial terminals has been successfully used by the USAF and USMC in the technical data conversion for the AN/TYO-23 systems (IETM- Interactive Electronic Technical Manuals) and AN/TYO-23 system maintenance and training (CBITS-Computer-Based Interactive Training System)

Systems Software provides re-engineering expertise to migrate legacy C2 systems to DII COE-compliant open-system architectures and provides post-deployment software support for weapons systems at government life-cycle software engineering centers.

Recognition Systems possess smart weapons applications for small, low power and real time target recognition selection through programs such as Optical Processor Enhanced LADAR (Laser Detection and Ranging), SEAD (Suppression of Enemy Air Defenses) and air-to-air; surveillance applications create real-time automatic cueing systems; civil applications include fingerprint identification and security/entitlements through the creation of high-throughput pattern matching, in the commercial area, areas of application include retinal image normalization and registration, real-time industrial inspection and ultrasound abnormality detection by the creation of real-time pattern recognition products for medical and industrial systems □

DATA SYSTEMS TODAY

A publication of Litton Systems, Inc.
Data Systems Division
29851 Agoura Road, Agoura Hills, CA 91301
(818) 707-4335

Published monthly for employees of
Litton Data Systems

by **Human Resources**

Thomas M. Kelly, Director,

Human Resources

Ellen R. Gilbert

Senior Human Resources Representative

Photography and Production

Tech Data

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