Decision Software Systems Inc Company Overview

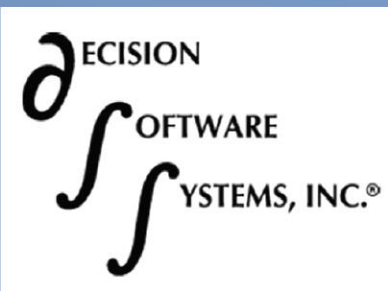## **www.decision-software.com**

800-682-0794

COMPANY OVERVIEW

Decision Software Systems is a Small Business Concern Established in 1984

• **Sales Volume Between 250K Million Annually**

• **Currently 2-3 Employees In Prior Project Staffing was expanded to 25.**

• **Decision Software Works in Both Governmental and Commercial Markets**

• **Company Provides Software and Systems Engineering Solutions to Clients**

• **Provide Professional Technical Services**

• **Staff Augmentation to Major Corporate Clients**

Commercial Market Sector Capabilities

- **Financial Services – Trading Systems, Mortgage Securities Systems**
- **DBMS – Data Modeling – Logical/Physical Schemas, DBMS, ETL**
- **Pharmaceutical Systems**
- **Robotics – Semiconductor Assembly and Image Processing**
- **Communications – Telephony, Cable, Internet**
- **Real Time Embedded Systems Development Projects**
  - **Operating Systems, Compliers, Device Drivers,**
  - **Multi-Threaded Tasking, Service Oriented Architectures**
- **Server Virtualization**
  - **VmWare – Migrate Solaris, Red Hat/Linux VAX/VMS, PC Systems**
- **Web Technologies**
  - **Microsoft -ASP.Net, Sharepoint, C#, Client-Server SQL Server**
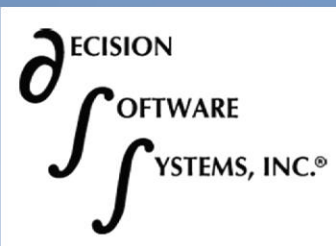 - **Unix/XAMPP – Apache, Java/Tomcat, PHP, Client-Server MySQL**

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Government Sector Services

- **Worked on Subcontracts to Prime Vendors for Governmental Organizations**
  - **DOD, FAA, Navy, Air Force, Army, NSA, NRO etc.**
- **Fire Control Systems – Divad, Battleship New Jersey-SYS-2, Aegis**
- **Radar Air Defense Systems - Aegis**
- **DOD Secure Communications System**
  - **Scott/Regency, Milstar, GPS, AEHF, GIG, JSF, JTRS**
- **InfoSec High Assurance Systems**
  - **Operating Systems Certification UNIX/MLS**
  - **Electronic Key Management Systems EKMS/PKI -LMD/KP, LAKMS/CASKMS, SOC, CF, ECU,ASN.1 Standards**
  - **High Assurance Certification of Crypto Graphic Communication Systems**
    - **Systems Engineering – Fail Safe-FSDR, Theory of Compliance-TOC,**
    - **Unified Infosec Criteria-UIC, Theory of Equipment-TOC**

Government Sector(s)- Cont'd

- **Geospatial Information Systems – GIS**
- **Global Positioning Systems - GPS Block II/IIR**
- **Requirements Management Systems – DOORS, ICDs, Requirements Mgt.**
- **Secure Communications – STE, OMNI, KGV-84**
- **C4ISR – Secure Communications Management Systems**
- **Encryption Systems – DES, AES, Crypto-Sync, Red/Black Separation, Block Ciphers**
- **Joint Computer Automatic Logistics Systems – JCALS**
  - **Devised Requirements for OBAC/RBAC management of Information**
  - **Organizational Based Access Control (OBAC) to Control Access**
  - **Roles Based Access Control (RBAC) subordinate to OBAC**
- **Communications – OSI - Data Link, Network, Transport Layer Stack Protocols, Transport Layer Security-TLS Standards, Certificate Management, IPV6/HAIPE,E1-E3 Transcoders**
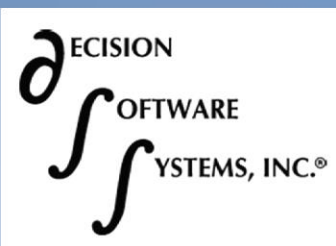
Cyber Security Services

Areas of Expertise:

- **Encryption Systems**
- **Development of Security Policies based on Security Standards**
- **Cipher Systems Development Providing Systems and Software Engineering for Development of Encryption Platforms.**
- **Design and Analysis of Encryption Engine/Algorithms, Control, Red and Black Planes**
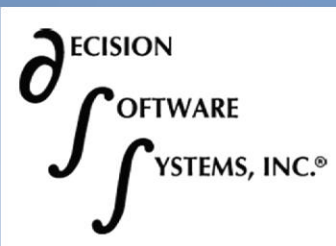- **Analysis and Development of Security Control Mechanisms for Certification**

Cyber Security Services (Cont'd)

Electronic Key Management Systems:

• **Expertise in Public Key Infrastructure Standards (PKI)**
• **Systems and Software Engineering Design and Analysis for Centralized Key Management Systems and Key Distribution Management Systems**

High Assurance Security Systems:

• **Systems Engineering Services for Development of High Assurance Encryption**
• **TEO – Theory of Equipment Operations**
• **FSDAR – Fail Safe Design and Analysis**
• **High Assurance Certification Criteria Systems Engineering**

Cyber Security Services (Cont'd)

Network, Application and Data Security

• **Systems and Software Engineering for Secure Management of Network Communications, Secure Applications and Secure Data.**

• **Multi-Level Security Systems – Expertise in Design and Development of MLS Operating Systems**

• **Security Analysis of Network OBAC – Organizational Based Access Controls and RBAC – Roles Based Access Controls via Network Based Access Control Mechanism based on Least Privilege Principal (No Read Up/No Write Down).**
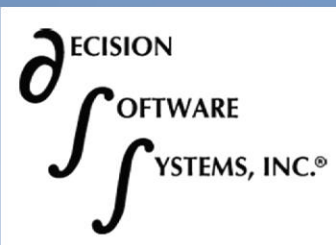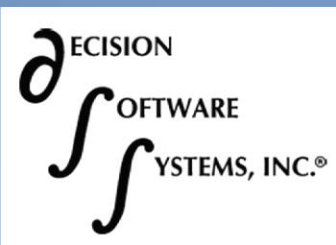
Cyber Security Services (Cont'd)

Security Testing Services

• **Systems and Software Engineering Development for Security Testing via Verification and Validation of Security Control Mechanisms to Assure Protection Profile Requirements of the Security Systems are Tested.**

• **Support High Assurance Certification Efforts.**

Embedded Systems Development

Decision Software Systems provides consulting professional(s) with expertise in Embedded Real Time Systems Development

Customized Real Time Systems Development:

• *Decision Software provides embedded systems professionals with extensive skills in many different specialized embedded processor systems using both vendor specific Assembly Language Programs and Embedded C, C++ and Java Languages.*
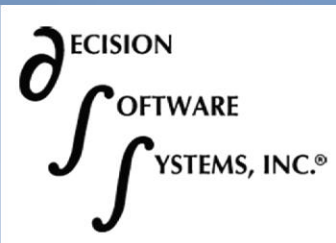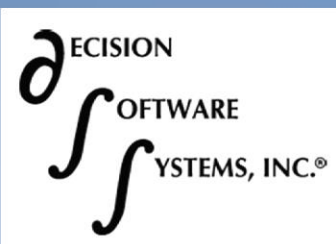
Embedded Systems Development (Cont'd)

Embedded Systems *Consulting Services*

•*Design/Analysis, Development and Testing of Real Time and Embedded Systems Embedded Controllers, Stand-Alone Controllers, Electronic Device Development. Microprocessor and Microcontroller Development, Distributed Control Systems and Embedded Communications Systems. Development for Specialized Device Drivers and Interrupt Handling Mechanisms.*

Embedded Systems Development (Cont'd)
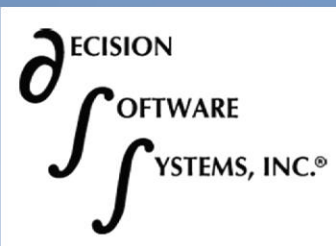
Real Time Operating Systems (RTOS) Consulting

• *Consulting Services for Development of Real Time Operating Systems (RTOS). Expertise in interfacing to standard Operating Systems such as VxWorks, pSoS.*

• *Development of customized Real Time Operating Systems for Embedded Hardware.*

• *Utilization of In-Circuit Emulators (ICE), Debuggers using JTAG and customized breakpoint analysis of complex systems.*
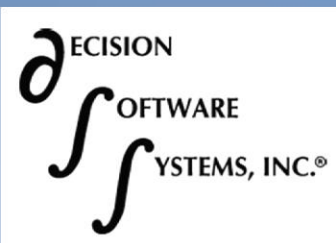
Independent Verification and Validation (IV&V) Services

IV&V Services:

• *Independent Validation and Verification Services (IV&V) for Embedded Systems. IV&V efforts are based on Contractual and System Requirements of the functions and operational features of the Systems Under Test (SUT). Development of Customized Validation Procedures to Verify the Systems Functional Operations to address the Requirements. Utilization of Requirements Management Methodologies to assure proper coverage of the System Requirements via the Validation Procedures (Inspection, Analysis, Demonstration and Test). Customized Support for Development of Automated Testing Methods using Testing Scripts as the Validation Procedures used to verify the Systems Under Test.*

<u>Independent Verification and Validation (IV&V) Services (Cont'd)</u>

IV&V Requirements Management:

- *Requirements Management and Traceability Analysis*
- *Customized Requirements Management for Project Specific Requirements Management Databases - DOORS, FAA DO-178B, Requirements Traceability Matrices (RTM)*
- *Defect Analysis and Tracking*
- *Test Plan and Test Case Development applied to Project Requirements Specifications*
- *Configuration Control and Change Management*
- *Independent Verification of Incremental Software/Hardware Building Configurations per Build Schedule and Requirements allocated to specific Configuration Builds.*
- *Information Assurance Evaluations (Type 1 High Assurance- TEO, FSDAR, UIC)*
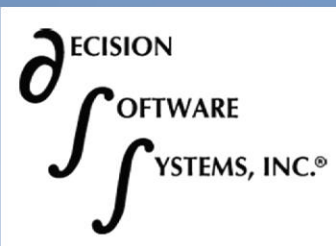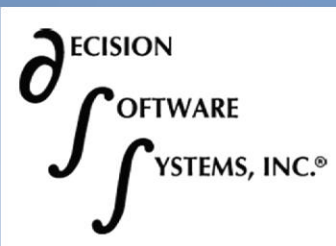
Database Consulting Services

Professional Technical Services for Enterprise to Desktop Database Systems (Oracle, SQL Server, Sybase, Informix, MySQL and Access).

Database Modeling:

• *Development of Database MetaData Models based on Requirements Analysis to implementation Logical and Physical Database Models*

Stored Procedure Development:

• *Development of Stored Procedures to facilitate application interfacing to the enterprise database(s) to provide a managed database system without direct coupling of application(s) to database(s).*

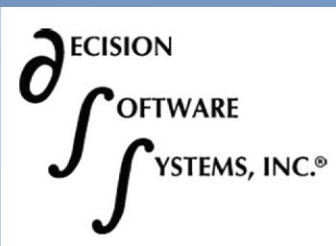## Database Consulting Services (Cont'd)

Data Migration:

• *Development of Extraction Transformation and Loading (ETL) procedures used to support database upgrades, importing and exporting of data from external sources.*

Database Interfacing:

• *Support for Interfacing of Enterprise Database Systems to LAN Based Client/Server and Web System Interfacing.*

Database Workflow:

• *Customized Support and Analysis for Workflow Management Systems interfacing to Front-End Clients in Web and LAN configurations.*
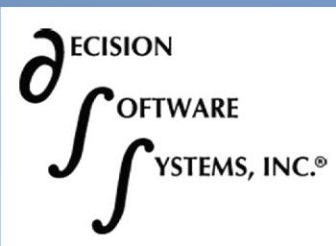
Database Consulting Services (Cont'd)

Database Performance:

• *Consulting Efforts to improve Performance of Database Systems within the Existing or Planned Network Architecture(s) and Applications Interfaces.*

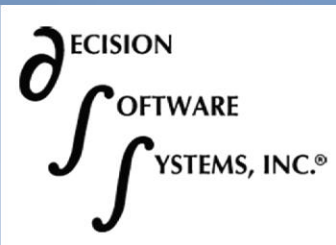•*Consulting Services for Optimization of Parallel, Distributed and Transaction Server Databases.*
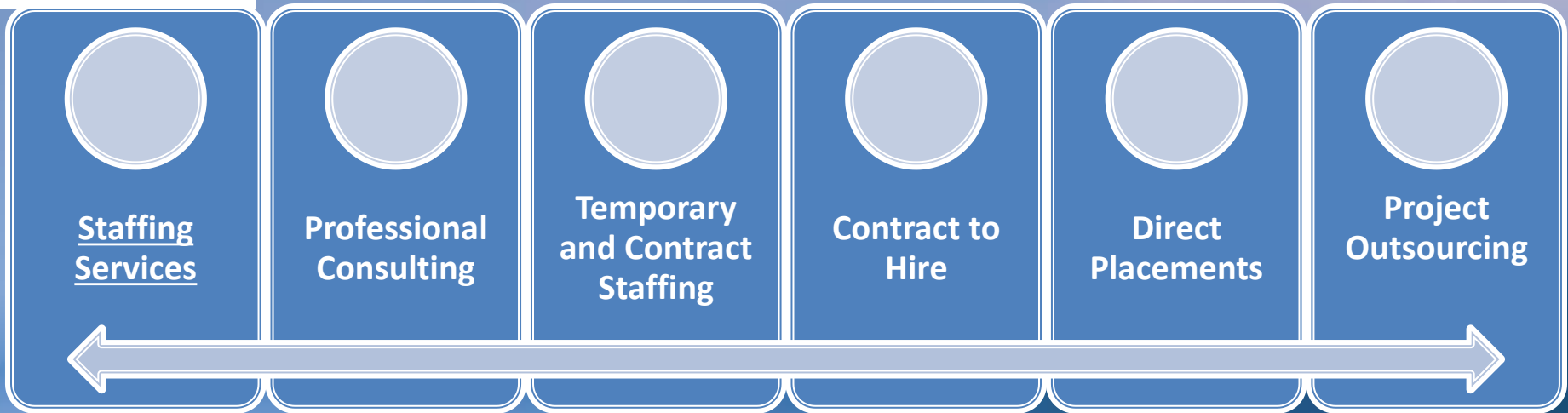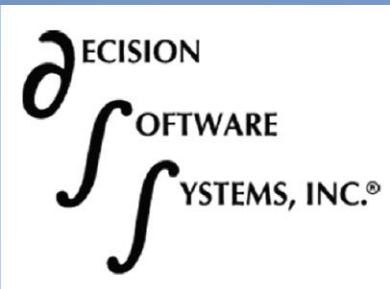
Staffing Services

Staffing Services to provide skilled technology professionals to facilitate an organization's ability to develop, support and manage technology programs. We have a successful track record of providing staff augmentation management services to our clients. With our staff augmentation services, we can enable client programs improve management of the projects that require fluctuating skills and dynamically changing staffing needs.

Staffing Services allows projects to meet aggressive schedules. Our resources work with client's programs on-site or via remote locations. We are a facility able to work with Aerospace and Government Defense Programs.

Staffing Services	Professional Consulting	Temporary and Contract Staffing	Contract to Hire	Direct Placements	Project Outsourcing

Decision Software Systems Inc – Company Objectives

Business Case Objectives

Joint Research and White Paper Technical Analysis

Teaming Partnerships with Prime Vendors

Joint Bidding Opportunities as a Small Business Concern

Subcontracting Opportunities

Staff Augmentation Services

Provide Professional and Technical Services to Upcoming Efforts