IT Engineering and Integration
U.S. Marine Corps
Past Performance

G2SF currently provides software application and process design/development/improvement, system architecture, systems integration, systems administration, advisory services, and computer based and classroom application training for the USMC. The G2SF Engineering & Integration Team has developed and/or enhanced software in our development lab, promoted pre-production software to the Marine Corps training stack, and released approved software into unclassified and classified production environments. To deliver high quality systems and tools, we use the G2SF Software Development Plan (SDP) and Software Development Life Cycle (SDLC) processes. As a result, G2SF produces business and technical requirements that are clearly defined, documented, and signed-off by all key stakeholders. G2SF participated in every phase of the systems development life cycle including the initial requirements definition and analysis that was used to redesign, develop, and enhance the original instance of an enterprise system. New system features and functions have been developed and managed from requirements definition to full production. For example, the G2SF Engineering & Integration Team developed an asset Import console that allows enterprise Asset Data Administrators to import asset records into the Configuration Management Database (CMDB) in bulk and associated contract information to specific assets. They also developed a Product Order Console used to process orders for IT assets from anywhere in the world using the G2SF-developed electronic Service Catalog. G2SF also designed, developed, implemented, customized and integrated network monitoring tools used to:

- Continuously discover network topology (SNMP V1, V2, V3)
- Proactively manage physical, virtual, and software-defined networks
- Monitor performance and capacity for trend analysis and bandwidth management
- Automate root-cause analysis engine for rapid service restoration
- Ensure security of managed devices with policy-based compliance
- Create advance metrics/monitor quality of service (QoS), internet protocol (IP) telephony (VoIP), IP multicast, multiprotocol label switching (MPLS)
- Monitor router redundancy groups (hot standby router protocol and virtual router redundancy protocol) and port aggregation
- Deliver native integration points to trouble ticketing systems (BMC Remedy, HP Service Manager, etc.)

For the USMC, the G2SF Engineering & Integration Team implemented Network Node Manager to allow incident tickets to be shared between two different systems automatically.