

## D. INFORMATION TECHNOLOGY SERVICE DESCRIPTIONS

Since 1996, The OakHill Group, LTD has provided analytical and systems engineering services to Department of Defense, Intelligence Community, and various commercial clients designing, implementing and maintaining reliable, efficient, and responsive information systems that support user business and mission requirements. Our staff has the experience and training required to analyze system performance, define and improve processes (both business and mission related), detect and isolate problems, and engineer cost effective solutions.

**Our reputation is built on achieving results.**

**Our analytical and systems engineering service solution is focused on identifying the problems and needs of an organization to determine how people, methods, processes, tasks, and technology can best be used to meet the needs of the organization and the user.**

**Analytic Services** – *Finding the Problem, Identifying the Solution*

**Business Process Analysis** – focused on optimizing processes and procedures used to conduct business and meet mission objectives.

**System Analysis** – focused on the current information system and its problems, the definition of user needs and requirements and the evaluation of alternate solutions – all from the Big Picture perspective!

**Performance Analysis** – focused on the efficient capture of information from its source, the flow of data to the information system, the processing and storage of data and the timely flow of useful information to the user – all emphasizing getting the right information to the right user in a timely manner!

This table shows the Analytic services provided by The OakHill Group and representative systems supported.

Analytic Services	Systems Supported
<ul style="list-style-type: none"> <li>• Business Process Analysis</li> <li>• Data Analysis</li> <li>• Knowledge Discovery</li> <li>• Performance Analysis</li> <li>• Process Improvement</li> <li>• Security Assessment</li> <li>• Systems Analysis</li> <li>• Technology Assessment</li> <li>• User Requirements</li> </ul>	<ul style="list-style-type: none"> <li>• Business/financial models</li> <li>• Data Display Systems</li> <li>• Embedded Information Systems</li> <li>• LAN/WAN Information Systems</li> <li>• Mission/Business Processes and Procedures</li> <li>• Mission/Combat Support Systems</li> <li>• Network Communication Systems</li> <li>• Network Management Reporting Systems</li> <li>• Status Visualization Systems</li> <li>• Telco Provisioning Systems</li> <li>• Trouble Ticketing Systems</li> <li>• Web Content Delivery Systems</li> </ul>

**Systems Engineering Services – *Implementing the Solution, Making Sure it Works***

**Systems Engineering** – focused on the entire technical and management effort required to implement the desired solution and evolves to ensure that the system of people, products and processes satisfies the needs of the organization and the user.

**System Design and Development** – focused on translating the desired solution into a detailed specification and the process of creating the information system solution.

**System and Application Integration** – focused on implementing a system solution using existing systems and application resources.

This table shows the Systems Engineering services provided and representative systems supported.

Systems Engineering Services	Systems Supported
<ul style="list-style-type: none"> <li>• Application Integration</li> <li>• Develop System Specification</li> <li>• Engineering Management</li> <li>• Risk Management</li> <li>• System Design and Architecture</li> <li>• System Development/ Programming Services</li> <li>• System Integration</li> <li>• System Requirements</li> <li>• System Test Support</li> <li>• Technology Evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• Asymmetric satellite communications links (wideband FSS uplinks, narrowband UHF SATCOM downlinks)</li> <li>• Asynchronous Transfer Mode (ATM) service provider network</li> <li>• Computer-telephony software utilizing Unix inter-process communication (signals and sockets)</li> <li>• Data Display Tools</li> <li>• Embedded Information Systems</li> <li>• Internet on-line data access</li> <li>• IP Network Architecture</li> <li>• LAN/WAN information system design, development, and systems integration</li> <li>• Management information dissemination</li> <li>• NSA-approved type 1 network encryption devices</li> <li>• Real-time video and bandwidth management</li> <li>• Remote Secure Dial-in Server</li> <li>• Secure Wide-band Communications Systems</li> <li>• Simple Network Management Protocol (SNMP) agents</li> <li>• Status Visualization Tools</li> </ul>

**IT Support Services – *Supporting the Solution, Making Sure it Performs***

**Performance Monitoring** – focused on configuring performance tools and monitoring system performance to ensure the system is performing up to specification.

**System Administration** – focused on the day-to-day operation of information systems to ensure users are getting the information required to meet business and mission objectives.

This table shows the IT Support services provided and representative systems supported.

Support Services	Systems Supported
<ul style="list-style-type: none"> <li>• Performance Data Analysis</li> <li>• Performance Monitoring</li> <li>• Report Generation</li> <li>• Software Maintenance</li> <li>• System Administration</li> </ul>	<ul style="list-style-type: none"> <li>• LAN/WAN Information Systems</li> <li>• Telco Provisioning Systems</li> <li>• Trouble Ticketing Systems</li> <li>• Web Portals</li> <li>• UNIX/NT/Linux Administration</li> <li>• Secure Communication Systems</li> </ul>

## IT Tools – *We know the right tools to use*

The OakHill Group analysis, systems engineering and support staff have knowledge and experience using the following tools and systems to identify and implement IT solutions.

### Analysis and Systems Engineering Tools

Performance Management		Network Management Applications	Security Management
<ul style="list-style-type: none"> <li>Concord eHealth</li> <li>InfoVista VistaViews</li> <li>Lucent VitalSuite</li> <li>MRTG: Multi-Router Traffic Grapher</li> <li>Trinagy TREND SNMP Manager</li> </ul>		<ul style="list-style-type: none"> <li>Cabletron Spectrum</li> <li>Concord eHealth</li> <li>HP NetMetrix</li> <li>HP OpenView Network Node Manager</li> <li>IBM NetView</li> <li>MicroMuse NetCool Omnibus Suite NMS</li> <li>Remedy Action Request System</li> <li>Sun Solstice Enterprise Manager</li> <li>SystemEdge SNMP Agents</li> <li>Veritas NerveCenter</li> </ul>	<ul style="list-style-type: none"> <li>Check point Firewall-1</li> <li>Cisco NetRanger</li> <li>Cisco NetSonar</li> <li>Cisco Pix</li> <li>Intrusion.com Kane Secure Enterprise</li> <li>Symantec Intruder Alert</li> <li>Symantec NetProwler</li> <li>Symantec Raptor Firewall</li> </ul>
Protocols and Standards		Information Visualization	Systems Engineering and Analysis
<ul style="list-style-type: none"> <li>ATM</li> <li>BGP</li> <li>CMIP</li> <li>DNS</li> <li>EIA/TIA 568 &amp; 569</li> <li>EIA/TIA TSB 36 &amp; 40</li> <li>FDDI</li> <li>Frame Relay</li> <li>HTML</li> <li>HTTP</li> <li>IEEE 488</li> <li>IPSec</li> </ul>	<ul style="list-style-type: none"> <li>ISDN</li> <li>MPLS</li> <li>NFS</li> <li>RMON</li> <li>SCSI</li> <li>SMTP</li> <li>SNMP</li> <li>TCP/IP</li> <li>TMN T-series</li> <li>Token Ring</li> <li>VME</li> <li>X.25</li> <li>X.400</li> </ul>	<ul style="list-style-type: none"> <li>Big Brother</li> <li>Hewlett Packard OpenView ITO</li> <li>Managed Objects</li> <li>OHG Status Visualization Tool (SVT)</li> <li>Visionelle</li> <li>WebObjects</li> </ul>	<ul style="list-style-type: none"> <li>Apache Jmeter</li> <li>Auto-Flow ABS Flowcharter</li> <li>Cadre Teamwork</li> <li>FORWARN</li> <li>Interleaf</li> <li>Intersolv PVCS</li> <li>LBMS SE</li> <li>Microsoft Project</li> <li>Microsoft Stress Test Tool</li> <li>Microsoft Visio</li> <li>PC-Metric</li> <li>SQA TeamTest</li> </ul>

### Hardware Systems and Architectures

Hardware Systems		
<ul style="list-style-type: none"> <li>3Com</li> <li>AC Kentrox DataSmart T1/E1</li> <li>Apple Macintosh</li> <li>Ascend</li> <li>BigIP HA</li> <li>Calcomp</li> <li>Cascade</li> <li>Cisco</li> <li>Cisco PIX Firewall</li> <li>Cisco Routers</li> </ul>	<ul style="list-style-type: none"> <li>F5 Labs</li> <li>Mostek 650x FORE ATM Switches</li> <li>HP</li> <li>IBM PC Compatibles</li> <li>Intel 808x86</li> <li>Intergraph</li> <li>Juniper Routers</li> <li>Larscom Access T45</li> </ul>	<ul style="list-style-type: none"> <li>Lucent Dial Access Devices</li> <li>Marconi/FORE</li> <li>Motorola 680x, 680x0 and 68HC11</li> <li>Motorola PPC</li> <li>Network General</li> <li>Orion CSU/DSU</li> <li>RMON Probes</li> <li>Sun</li> <li>Versatec</li> <li>Zilog Z80</li> </ul>

## Software Engineering Tools and Systems

<b>Programming Tools</b>	<b>Operating Systems</b>	<b>Other Tools</b>
<ul style="list-style-type: none"> <li>• Ada</li> <li>• Assembler</li> <li>• C/C++</li> <li>• COBOL</li> <li>• DBD:DBI</li> <li>• Expect</li> <li>• FORTRAN</li> <li>• GensymG2</li> <li>• Java</li> <li>• JavaScript</li> <li>• Jovial</li> <li>• Mason</li> <li>• Pascal</li> <li>• Perl</li> <li>• PostScript</li> <li>• Python</li> <li>• TCL/TK</li> <li>• UNIX Shells (Korn, Bash. C, Bourne)</li> </ul>	<ul style="list-style-type: none"> <li>• AIX</li> <li>• Cisco IOS</li> <li>• CP/M</li> <li>• GNU/Linux</li> <li>• HPUX</li> <li>• Irix and Interactive Unix</li> <li>• MacOS</li> <li>• Solaris</li> <li>• Sun OS</li> <li>• Ultrix</li> <li>• VAX VMS</li> <li>• VRTXsa</li> <li>• Windows 9x/NT/2000</li> </ul>	<ul style="list-style-type: none"> <li>• Apache Jserv</li> <li>• Autocad</li> <li>• Borland C++</li> <li>• ForeView</li> <li>• GNU C/C++</li> <li>• Jarkarta Tomcat</li> <li>• Macromedia JRUN</li> <li>• Microsoft Visual Studio</li> <li>• Motif</li> <li>• Netscape Application Server Development Environment</li> <li>• PGP/GNU Privacy Guard</li> <li>• Rational Rose</li> <li>• Rsync</li> <li>• SSH</li> <li>• Symantec Visual Café</li> <li>• Xlib</li> <li>• YACC</li> </ul>
<b>Configuration Management</b>	<b>Database Applications</b>	<b>Web Development Tools and Services</b>
<ul style="list-style-type: none"> <li>• Concurrent Versioning System (CVS)</li> <li>• Intersolv PVCS</li> <li>• Preforce Configuration Management System</li> <li>• Revision Control System (RCS)</li> </ul>	<ul style="list-style-type: none"> <li>• Access</li> <li>• IDM-500 MiniSQL</li> <li>• MySQL</li> <li>• Oracle</li> <li>• Paradox</li> <li>• PostgreSQL</li> <li>• Remedy</li> <li>• SQL Server</li> <li>• Sybase</li> </ul>	<ul style="list-style-type: none"> <li>• HTML/CGI</li> <li>• Java</li> <li>• JavaScript</li> <li>• Microsoft.NET</li> <li>• PHP</li> <li>• SOAP/XML-RPC</li> <li>• UDDI</li> <li>• Web Servers (Apache, IIS)</li> <li>• XML</li> </ul>