

ManTech®

**IT Commercial Price List
ManTech International Corporation
January 2025**

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**COMMERCIAL
SOFTWARE & SERVICES**

ACQCENTER

The AcqCenter team at ManTech develops and maintains a full offering of web-based solutions for government and private organizations to assist with all phases of the acquisition lifecycle. The software products that are currently available within the AcqCenter include DecisionPoint®, OnTarget®, DICE - Document Integrity, Collaboration and Evaluation, and BIDS - BAA Information Delivery System.

DECISIONPOINT®

DecisionPoint® is a secure, web-based collaboration tool that reduces protest risk and increases award schedule efficiency for government agency contract teams. Agencies of all sizes rely on the security, functionality, and efficiency of DecisionPoint® to support their source selection strategies and success. With DecisionPoint®, agency officials can assess evaluation team progress and quality, while reducing cycle time to meet award schedules.

ONTARGET®

OnTarget® is a proposal development and review solution enabling government contractors to focus their proposals on the source selection criteria from the outset and to increase their contract win rate.

DICE - DOCUMENT INTEGRITY, COLLABORATION AND EVALUATION

A PROIX® Suite Application

DICE is a secure, web-based real-time document collaboration and workflow tool for the development and evaluation of Rich Text, Slide Deck and Form documents to meet the needs of a dispersed workforce.

BIDS - BAA Information Delivery System

BIDS is a web accessible, secure, fully automated and paperless knowledge management application that not only streamlines the dissemination and proposal gathering process but allows for real time on-line evaluations while reducing the demand on personnel resources and maintaining the highest levels of information security.

DECISIONPOINT[®]

What is DecisionPoint[®]?

DecisionPoint[®] is a secure, web-based collaborative source selection management tool which reduces protest risk and increases award schedule efficiency for government agency contract teams. Government entities of all sizes rely on the security, functionality, and efficiency of DecisionPoint[®] to support their source selection strategies and success.

DecisionPoint[®] allows our customers to:

- Eliminate protests
- Increase evaluation efficiency
- Maximize online collaboration
- Provide comprehensive documentation
- Focus efforts on the quality and substance of the evaluation; not administration, process and logistics

DecisionPoint[®] is designed for federal agency program managers and contracting officers that supervise evaluation teams during the source selection process. By using DecisionPoint[®] agency officials can assess evaluation team progress and quality, while reducing cycle time to meet award schedules. The ultimate test of any contract award decision is the agency's ability to stand up to protest. With DecisionPoint[®], agencies can virtually eliminate this worry.

Standardized evaluation templates and intuitive workflow routines ensure both consistent proposal evaluation and strict compliance to award evaluation criteria. A structured approach to process integrity and comprehensive audit trails ensures quality and control. Protests are not only less likely to occur but also less likely to succeed. In fact, to date, no protest has ever been sustained where DecisionPoint[®] has been utilized.

FEATURES:

User Friendly Interface

The DecisionPoint[®] interface is intuitive, straightforward, and consistent. The tool uses standardized input templates that promote documentation quality and consistency, reducing the administrative burden on source selection management. User training and orientation sessions help team members feel comfortable and confident with the tool from the first day of the source selection. DecisionPoint[®] enables evaluation teams to focus on the quality and substance of their evaluations, not on source selection administration, process and logistics.

Scalability and Stability

DecisionPoint[®] software designers have ensured the application provides a scalable and stable platform for conducting large-scale or multiple-user source selection efforts. Through a multiple source selection environment, the DecisionPoint[®] application and associated infrastructure have a proven record of maintaining complete integrity and security between the source selections with no loss of performance or compromise of sensitive evaluation data.

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FEATURES CONTINUED**Fast, Flexible Implementation**

DecisionPoint[®] is a rapidly deployable application that can be plugged into almost any acquisition environment or specification with minimal intervention and expense.

Fully Customizable

DecisionPoint[®] was designed to ensure that customized modifications, including unique source selection language and process alterations are fast, straightforward and trouble-free.

Facilitates Process Integrity

By tailoring to the agency's environment and ways of doing business, DecisionPoint[®] helps enforce the evaluation team's source selection process. Evaluator strengths, weaknesses ratings and risks clearly link to RFP evaluation criteria.

Real Time Process Control

DecisionPoint[®] presents evaluation managers with a panoramic view of the entire source selection process, enabling them to monitor the status of the overall process, drill down to a discrete element or gauge progress with total ease at any time, from anywhere. DecisionPoint[®] facilitates effective communication with helpful features including integrated messaging and bulletin boards.

Rapid Online Consensus

DecisionPoint[®] delivers an efficient consensus process to facilitate collaboration between acquisition teams. Through built in reporting, integrated messaging and bulletin board functionality, customers are able to facilitate effective communication between managers and end- users. Consensus findings are easily posted and interactively accessible to the entire team in real-time, displaying progress and status metrics.

Management Insight

DecisionPoint[®] provides source selection management the ability to monitor evaluator progress and comment quality from their desktop. As part of their DecisionPoint[®] access protocol, source selection management can monitor all evaluator/advisor comments and provide real-time feedback and direction via a built-in Q&A and bulletin board feature. This capability is invaluable for making in-process corrections and proactively managing the source selection schedule.

Online Library and Data Warehouse

DecisionPoint[®] allows customers to create and securely maintain an online reference library of agency and offeror documents in a searchable, structured format that maintains 100% source document integrity. Coherent, comprehensive, and secure records are permanently maintained. Document quality is upheld through logical workflow and user interface to help ensure consistent and complete evaluator ratings and narratives.

Responsive Customer Service and Support

AcqCenter is committed to providing customers with the most responsive support available throughout the entire evaluation process. DecisionPoint[®] is not just software – it is a full-service capability that ensures your evaluation team receives our best customer support, from initial DecisionPoint[®] install to final data archiving at the end of the selection process.

DECISIONPOINT® LICENSING PRICE LIST
Public Internet Access License

Secure access to DecisionPoint® via the Internet from the customer's desktop. Hosted on the AcqCenter's Secure System in Microsoft Azure.

ManTech Hosted License Options	Pricing
Set-Up & User Training Includes: <ul style="list-style-type: none"> ✓ One-day onsite user application training session* ✓ Application set-up and configuration ✓ Network performance testing and validation 	\$13,240.00 <i>Per Source Selection</i>
License Fees Includes: <ul style="list-style-type: none"> ✓ 24x7 customer-access to DecisionPoint® Technical Support Desk ✓ Email and phone support during standard business hours ✓ DecisionPoint® software upgrades at no extra cost ✓ AcqCenter's commitment to customer satisfaction 	\$1,950.00 <i>Per Month/ Per Source Selection</i>
OPTIONAL: Acquisition Consulting	\$174.00 / hour

*Travel costs for support services outside the local Washington, DC area will be billed separately.

Private Intranet License/Leased Server

Purchase of DecisionPoint® software license and installation on customer's private intranet.

Customer-Hosted License Options	Pricing
Set-Up & User Training Includes: <ul style="list-style-type: none"> ✓ One-day onsite user application training session* ✓ Application set-up and configuration ✓ Network performance testing and validation 	\$15,025.00 <i>Per Source Selection</i>
License Fees Includes: <ul style="list-style-type: none"> ✓ 24x7 customer-access to DecisionPoint® Technical Support Desk ✓ Email and phone support during standard business hours ✓ DecisionPoint® software upgrades at no extra cost ✓ AcqCenter's commitment to customer satisfaction 	\$1,145.00 <i>Per Month / Per Server/ Per Source Selection</i>
OPTIONAL: Acquisition Consulting	\$174.00 / hour
OPTIONAL: Fully Configured DecisionPoint® Environment installed on the customer LAN	Custom Pricing

*Travel costs for support services outside the local Washington, DC area will be billed separately.

ONTARGET®

What is OnTarget®?

OnTarget® is a proposal development and review solution enabling government contractors to focus their proposals on the source selection criteria from the outset and to increase their contract win rate. OnTarget® is based on DecisionPoint®, AcqCenter's software platform used in over 950 procurements by government agencies, with an eye toward the proposal team and the unique challenges behind contract wins.

OnTarget® allows our customers to:

- Develop clear and concise linkage between your proposal and the specific evaluation criteria
- Make the job of government evaluators and contract officers easy and painless
- Increase win rate

FEATURES:

User Friendly Interface

Many organizations employ a group of independent reviewers known as Red Teams to objectively assess the proposal and ensure compliance with RFPs. Red Team processes are loosely defined and often haphazard; therefore, it is imperative they use a source selection tool to streamline their workflow. OnTarget® is a software management tool specifically designed for Red Teams.

Online Proposal Development Library

An easy-to-access reference library of documents can be created. Coherent, comprehensive and secure records are permanently maintained. Document quality is upheld through logical workflow to help ensure consistency

Simplify Evaluations

OnTarget® allows Red Teams to review proposals in the same way as a government evaluator would, gathering feedback on the content and organization of the material.

Develop Strategy / Win Theme

The effectiveness of proposals meeting capture strategies can be evaluated, allowing the team to provide feedback on areas where enhancements should be made.

Match Your Proposal to Evaluation Criteria

OnTarget® focuses proposal teams on the same criteria the government will use – this process is critical as proposals are evaluated against criteria, not competitors.

Build Rapid Online Consensus

OnTarget® delivers an efficient consensus process to facilitate collaboration between proposal teams, allowing consensus findings to be easily posted and accessed by the entire team in real-time, displaying progress and status metrics.

Streamline Operations

OnTarget® maximizes collaboration with intuitive workflow, making proposal development activities seamless and efficient.

Fast, Flexible Implementation

OnTarget® can be plugged into almost any proposal environment with minimal intervention and expense.

ONTARGET® LICENSING PRICE LIST

Description	Pricing
Installation, Set-Up & User Training* (Required for new customers only) Includes: <ul style="list-style-type: none"> ✓ One-day onsite super user application training session for up to 10 students ✓ One-day onsite server installation and testing (installed on customers server) ✓ Customers may opt for two annual on-site visits (one day each) to address any OnTarget® performance issues and ensure optimal system health ✓ Application set-up, configuration and process tailoring Set-up and User Training to be scheduled and completed within 90 days of purchase	\$51,500.00
License Fees Includes: <ul style="list-style-type: none"> ✓ Full access to all software features and updates ✓ Standard Support for up to two (2) Technical Points of Contact (TPOC) per organization ✓ Software upgrades at no additional cost 	\$26,250.00 <i>Billed Annually</i>

*Travel costs for support services outside the local Washington, DC area will be billed separately. Cleared staff available for secure installs

ONTARGET® ADD-ONS

Option	Description	Pricing
Add-On: Additional TPOC	Additional Technical Points of Contact (TPOC) seats are per person / per month (billed annually) and will align with the license expiration date (prorating available).	\$309.00 <i>Per TPOC / Per Month Billed Annually</i>

ONTARGET® TRAINING

Option	Pricing
IN-PERSON INSTRUCTOR-LED TRAINING (ILT) - for existing customers only <ul style="list-style-type: none"> • Duration: Full Day Course • Maximum course capacity: 10 students <i>Customer responsible for securing classroom or suitable training space equipped with a projector or screen.</i>	Custom Pricing



DICE

DOCUMENT INTEGRITY, COLLABORATION & EVALUATION

What is DICE?

DICE is a PROIX® Suite application featuring an innovative document collaboration tool designed to streamline your workflow and collaborate effortlessly across your entire team.

Our intuitive interface empowers your team to create, edit, and collaborate on documents in real-time, fostering a more productive work environment. Automatic tracking of changes provides a history of what was changed, when it was changed, and by whom.

Security is paramount: DICE is a secure, web-based tool that offers access control at the folder or document level, ensuring information remains protected. Two-factor authentication provides an extra layer of security, while the ability to track every change made to a document offers complete transparency.

Co-edit documents simultaneously: Facilitate real-time collaboration with support for up to 10 users reviewing and up to 5 editors modifying a document simultaneously.

Work online: No need for clunky file transfers or local versions.

Organize and secure your workflows: Multiple user roles ensure the right people always have the right access, keeping your team organized and focused.

Create the document types you need: Create rich text documents or form documents based on form templates with over 20 built-in fields. Easily export the documents to Word or PDF.

Expand your capabilities: Extend the tool's functionality with pre-built extensions or develop your own using the Extension API.

Develop DecisionPoint® templates: DICE contains fields specifically for the development of Evaluation and Award Criteria. The information provided in these fields can be exported to a file that can be imported as a template in ManTech's DecisionPoint® application.

DICE LICENSING PRICE LIST

Options	Pricing
<p>DICE OFFICE (10+ Users) Annual License Subscription</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> ✓ Full access to all software features and updates ✓ Standard Support for up to two (2) Technical Points of Contact (TPOC) per organization ✓ Software upgrades at no additional cost <p><i>Minimum license purchase quantity: 10 users</i></p>	<p>\$15.75</p> <p><i>Per User / Per Month</i></p> <p><i>Billed Annually</i></p>
<p>DICE BUSINESS (50+ Users) Annual License* Subscription</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> ✓ Full access to all software features and updates ✓ Standard Support for up to three (3) Technical Points of Contact (TPOC) per organization ✓ Software upgrades at no additional cost 	<p>\$13.13</p> <p><i>Per User / Per Month</i></p> <p><i>Billed Annually</i></p>
<p>DICE ENTERPRISE (100+ Users) Annual License* Subscription</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> ✓ Full access to all software features and updates ✓ Standard Support for up to four (4) Technical Points of Contact (TPOC) per organization ✓ Software upgrades at no additional cost 	<p>\$10.50</p> <p><i>Per User / Per Month</i></p> <p><i>Billed Annually</i></p>

Standard Support consists of Tiers 0–2 support and does not include web-based meetings or phone assistance. Ticket response times may vary, and tickets from customers with Enhanced Support are prioritized, which could result in longer response times for standard support. For additional information regarding what Standard Support covers, see [page: 25](#)

DICE ADD-ONS

Option	Description	Pricing
<p>Add-On: Additional TPOC</p>	<p>Additional Technical Points of Contact (TPOC) seats are per person / per month (billed annually) and will align with the license expiration date (prorating available).</p>	<p>\$309.00</p> <p><i>Per TPOC / Per Month</i></p> <p><i>Billed Annually</i></p>

DICE TRAINING

Description	Pricing
<p>Installation/Set-up Assistance & Training*</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> ✓ Two (2) consecutive day onsite installation support engagement, installing DICE on the customer's server ✓ Testing and validation of installation ✓ Administrative user training (on-site, up to 5 users) 	<p>\$10,866.50</p>

*Travel costs for support services outside the local Washington, DC area will be billed separately.

DICE ENHANCED SUPPORT

Level	Description	Pricing
<p>PREMIUM</p>	<p>Tier 3+ Premium Enhanced Support Subscription provides troubleshooting and analysis of DICE deployments in an enterprise environment.</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> ✓ One (1) additional Technical Point of Contact (TPOC) ✓ Priority ticketing support with four (4) business hour response time ✓ Customers may schedule up to two (2) 45-minute web-based meetings or phone calls per month throughout the contract period to address any questions or concerns - <i>unused sessions expire monthly, do not rollover and must be scheduled with five (5) business days advance notice</i> ✓ Scheduled support outside of standard business hours can be provided with ten (10) business days' advance notice 	<p>\$10,300.00</p> <p><i>Annually</i></p>



BIDS BAA INFORMATION DELIVERY SYSTEM

What is BIDS?

BIDS is a comprehensive knowledge management solution designed for R&D organizations. This web-accessible application streamlines the entire information gathering and evaluation process, from disseminating calls for proposals (OTAs, BAAs, RFIs, SBIRs, etc.) to collecting submissions and conducting real-time online evaluations. BIDS eliminates paper-based inefficiencies, reduces administrative burden, and ensures the highest levels of information security.

BIDS allows our customers to:

- Post, gather and evaluate responses to OTAs, BAAs, RFIs
- Secure evaluation of submissions
- Integrate group evaluations for decision making

Manage your processes from anywhere with BIDS. This web-accessible platform gives you the tools to streamline workflows, improve collaboration, and make faster, more informed decisions with real-time data and reporting.

BIDS LICENSING PRICE LIST

Description	Pricing
Set-up and User Training* <i>Includes:</i> <ul style="list-style-type: none"> ✓ Requirements gathering with customer ✓ Routine tailoring (nomenclature changes, customer logo, text configuration, etc.) ✓ Creation of customer portal for access ✓ Database validation with customer ✓ One day on-site training (optional) 	\$17,325.00
BIDS Product License <i>Includes:</i> <ul style="list-style-type: none"> ✓ BIDS Software License ✓ Help Desk Support during standard business hours ✓ BIDS Application Guide and Quick Sheets 	\$6,000.00 <i>Per Month</i> <i>Billed Annually</i>

*Travel costs for training and support services outside the local Washington, DC area will be billed separately.

DOCUMENT DETECTIVE (DOCDET)

What is DocDet?

Document Detective (DocDet) is a mission-critical, standalone Windows-based desktop application designed to **prevent data spillage** and support the U.S. Government's rigorous requirement for **100% reliable human review** during Assured File Transfers (AFT), which involve transferring files from higher to lower classified networks or domains. DocDet ensures safe, secure document transfers across classified security boundaries, while also identifying **Insider Threat indicators** and mitigating risks associated with unauthorized or malicious data leakage.

DOCDET LICENSING PRICE LIST

The DocDet software is licensed in user packs, which define the number of users who can access the software from a single licensed machine.

Example: A 1x5-user pack allows 5 users to access the software installed on **one** machine (physical or virtual) or server.

If you need to install the software on additional machines, additional licenses must be purchased.

Description	Pricing
DOCDET OFFICE (5+ Users) Annual License Subscription Includes: <ul style="list-style-type: none"> ✓ Full access to all software features and updates ✓ Standard Support for up to two (2) Technical Points of Contact (TPOC) per organization ✓ Software upgrades at no additional cost <i>Minimum license purchase quantity: 5 users</i>	\$288.75 <i>Per User</i> <i>Billed Annually</i>
DOCDET BUSINESS (50+ Users) Annual License Subscription Includes: <ul style="list-style-type: none"> ✓ Full access to all software features and updates ✓ Standard Support for up to three (3) Technical Points of Contact (TPOC) per organization ✓ Software upgrades at no additional cost 	\$262.50 <i>Per User</i> <i>Billed Annually</i>
DOCDET ENTERPRISE (100+ Users) Annual License Subscription Includes: <ul style="list-style-type: none"> ✓ Full access to all software features and updates ✓ Standard Support for up to four (4) Technical Points of Contact (TPOC) per organization ✓ Software upgrades at no additional cost 	Custom Pricing <i>Billed Annually</i>

Standard Support consists of Tiers 0–2 support and does not include web-based meetings or phone assistance. Ticket response times may vary, and tickets from customers with Enhanced Support are prioritized, which could result in longer response times for standard support. For additional information regarding what Standard Support covers, see [page: 25](#)

DOCDET ADD-ONS

Option	Description	Pricing
Add-On: Additional TPOC	Additional Technical Points of Contact (TPOC) seats are per person / per month (billed annually) and will align with the license expiration date (prorating available).	\$309.00 <i>Per TPOC / Per Month Billed Annually</i>

DOCDET TRAINING

Enhance your team's skills and confidence with our comprehensive DocDet virtual training course.

This instructor-led course provides hands-on training for using DocDet to sanitize documents for secure file transfers.

Course Highlights:

- **Interactive Learning:** Practical exercises with the DocDet software to reinforce key concepts.
- **Comprehensive Curriculum:**
 - Sanitizing documents for Assured File Transfers (AFTs)
 - Protecting against insider threats
 - Minimizing personal risk
 - Applying DocDet best practices
- **Course Materials:** All necessary materials provided electronically.
- **Certification:** Certificate awarded upon successful completion of the course and examination.

Options	Pricing
VIRTUAL INSTRUCTOR-LED TRAINING (ILT) <ul style="list-style-type: none"> ● Duration: 4 Hours ● Minimum Enrollment: 5 Students ● Maximum course capacity: 10 students 	\$772.50 <i>Per Student</i>

DOCDET ENHANCED SUPPORT

Level	Description	Pricing
PREMIUM	Tier 3+ PREMIUM Enhanced Support Subscription provides troubleshooting and analysis of DocDet deployments in an enterprise environment. Includes: <ul style="list-style-type: none"> ✓ Two (2) additional Technical Points of Contact (TPOC) ✓ Priority ticketing support with four (4) business hour response time ✓ Customers may schedule up to two (2) 45-minute web-based meetings or phone calls per month throughout the contract period to address any questions or concerns - <i>unused sessions expire monthly, do not rollover and must be scheduled with five (5) business days advance notice</i> ✓ Scheduled support outside of standard business hours available with ten (10) business days' advance notice 	\$10,300.00 <i>Annually</i>

INFINISTRUCURE™

What is InfiniStructure™?

InfiniStructure™: Limitless IT Landscape is ManTech-developed software that enables users to rapidly create and deploy a digital cyber environment, scaling any number of servers, whether a few or thousands, in minutes. InfiniStructure™ works on any hardware or cloud platform of choice. Customers may purchase InfiniStructure™ individually and use it on their own to build digital twins and create a testing, simulation and training environment. If you just want the tool to enable your own experts to work it, you can do so, the same as with a commercial service. The versatility of InfiniStructure™ can help virtually any customer protect their critical infrastructure via rapid deployment, development, testing and simulation to meet their most challenging needs.

BENEFITS:

- Rapid Deployment on Multiple Services
- User Friendly Visualization
- Drag and Drop Interface for Connectivity to Devices and Virtual Machine (VM) Templates

INFINISTRUCURE™ LICENSING PRICE LIST

Description	Pricing
<p>Set-Up & User Training (Required for new customers only)</p> <p>Includes:</p> <ul style="list-style-type: none"> ✓ One-day virtual user application training session for up to 10 students ✓ Application installation and configuration including: <ul style="list-style-type: none"> ◆ Platform Administration ◆ Building Virtual Machine Templates ◆ Importing and Exporting SDIs ◆ Importing Disk Images <p><i>Set-up and User Training to be scheduled and completed within 90 days of purchase</i></p>	<p>\$13,905.00</p>
<p>License Fees</p> <p>Includes:</p> <ul style="list-style-type: none"> ✓ Full access to all software features and updates ✓ Standard Support for up to two (2) Technical Points of Contact (TPOC) per organization ✓ Software upgrades at no additional cost <p><i>Minimum license purchase quantity: 10 users</i></p>	<p>\$2,520.00</p> <p><i>Per User</i></p> <p><i>Billed Annually</i></p>

Standard Support consists of Tiers 0–2 support and does not include web-based meetings or phone assistance. Ticket response times may vary, and tickets from customers with Enhanced Support are prioritized, which could result in longer response times for standard support. For additional information regarding what Standard Support covers, see [page: 25](#)

INFINISTRUCURE™ ADD-ONS

Option	Description	Pricing
Add-On: Additional TPOC	Additional Technical Points of Contact (TPOC) seats are per person / per month (billed annually) and will align with the license expiration date (prorating available).	\$309.00 <i>Per TPOC / Per Month Billed Annually</i>

INFINISTRUCURE™ TRAINING

Option	Pricing
VIRTUAL INSTRUCTOR-LED TRAINING (ILT) - for existing customers only <ul style="list-style-type: none"> • Duration: 4 Hours • Minimum Enrollment: 5 Students • Maximum course capacity: 10 students 	\$772.50 <i>Per Student</i>

INFINISTRUCURE™ ENHANCED SUPPORT

Level	Description	Pricing
ELITE	Tier 3+ ELITE Enhanced Support Subscription provides troubleshooting and analysis of InfiniStructure™ deployments in an enterprise environment. Includes: <ul style="list-style-type: none"> ✓ Two (2) additional Technical Points of Contact (TPOC) ✓ Priority ticketing support with four (4) business hour response time ✓ Customers may schedule one (1) 45-minute web-based meeting or phone call per month throughout the contract period to address any questions or concerns - <i>unused sessions expire monthly, do not rollover and must be scheduled with five (5) business days advance notice</i> ✓ Scheduled support outside of standard business hours available with ten (10) business days' advance notice ✓ Customers may opt for one (1) annual on-site visit (three consecutive days) to address any software performance issues and ensure optimal system health 	\$30,900.00 <i>Annually</i>
PRIORITY	Tier 3+ PRIORITY Enhanced Support Subscription provides troubleshooting and analysis of InfiniStructure™ deployments in an enterprise environment. Includes: <ul style="list-style-type: none"> ✓ One (1) additional Technical Point of Contact (TPOC) ✓ Priority ticketing support with four (4) business hour response time ✓ Customers may schedule one (1) 45-minute web-based meeting or phone call per month throughout the contract period to address any questions or concerns - <i>unused sessions expire monthly, do not rollover and must be scheduled with five (5) business days advance notice</i> ✓ Scheduled support outside of standard business hours available with ten (10) business days' advance notice 	\$15,450.00 <i>Annually</i>

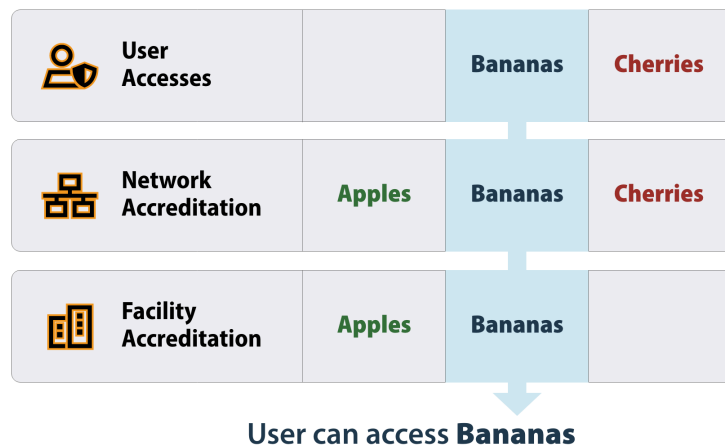
SENTRIS®

What is Sentris®?

Sentris® is a flexible security labeling and access control platform, developed by ManTech for Microsoft Windows® environments that require a high degree of data security and confidentiality. Sentris® provides end users with easy-to-use tools to label and secure content using common applications, such as Microsoft Word®, Excel®, PowerPoint® and SharePoint®. Sentris® is unique in its capability to control access to data based on three criteria:

1. Who is accessing the information?
2. Where are they located?
3. What system are they using?

Sentris® Security Paradigm



This innovative approach to attribute-based access control (ABAC) allows organizations to easily and efficiently manage access to information in complex, high-security environments where traditional access control mechanisms are ineffective and cumbersome. Sentris® is designed to support key U.S. Government sharing initiatives to prevent inadvertent disclosure of restricted information and is equally customizable to meet the security requirements for virtually any organization.

ManTech offers commercially-available annual subscription licenses in addition to optional Feature Packs, Add-Ons, Training and Enhanced Support Subscriptions for the Sentris® Platform.

SENTRIS® PLATFORM LICENSING PRICE LIST

ManTech licenses the Sentris® Platform Core Components on an annual subscription per named-user basis at the following price.

Includes	Pricing
<ul style="list-style-type: none"> ✓ Sentris® Platform Server <ul style="list-style-type: none"> ◆ The Sentris® Platform Server is the cornerstone of the Sentris® Platform ecosystem. With a back-end architecture based on SQL Server, the Sentris® Platform Server provides centralized mechanisms via three Sentris® Security Services for authenticating users within Sentris® and specifying the classification metadata that each user is authorized to process. ✓ Sentris® Platform Client <ul style="list-style-type: none"> ◆ The Sentris® Platform Client provides customer application access to the Sentris® Security Services. Additionally, the Sentris® Platform Client is a prerequisite for all Sentris® customer and server applications. Included in the Sentris® Platform Client installation: <ul style="list-style-type: none"> ■ Sentris® Banner ■ Sentris® Bulk Marking Tool ■ Sentris® Configuration Editor ■ Sentris® Log Utility ■ Sentris® Send to Shell Extension ✓ Sentris® Administration Tool <ul style="list-style-type: none"> ◆ The Sentris® Administration Tool is used by Sentris® administrators to essentially manage the Sentris® environment, such as assigning user accesses, defining facility and network certifications, and creating the marking data. ✓ Sentris® Labeling for Microsoft Office <ul style="list-style-type: none"> ◆ Sentris® Labeling for Office is a classification labeling utility that facilitates the document marking process and works with other Sentris® components to control access to the marked files. Sentris® Labeling for Office integrates with the desktop version of common Microsoft Office applications, specifically Word, PowerPoint, Excel, Project, and Outlook. ✓ Sentris® ADP Synchronization Service <ul style="list-style-type: none"> ◆ The Sentris® Synchronization Service updates security principals (users, facilities, networks) with data stored in another system. The service pulls information from the external system and updates the corresponding records in Sentris®. ✓ Sentris® Standard Support for up to two (2) Technical Points of Contact (TPOCs) per organization. <p><i>Minimum license purchase quantity: 100 users</i></p>	<p>\$173.25</p> <p><i>Per User</i></p> <p><i>Billed Annually</i></p>

Standard Support consists of Tiers 0–2 support and does not include web-based meetings or phone assistance. Ticket response times may vary, and tickets from customers with Enhanced Support are prioritized, which could result in longer response times for standard support. For additional information regarding what Standard Support covers, see [page: 25](#)

SENTRIS® FEATURE PACKS

Sentris® Feature Packs are subject to a one-time purchase fee, provided the Sentris® Core annual license subscription remains active and in good standing. Should the Sentris® Core annual license subscription lapse or fail to renew, all previously purchased Feature Packs must be repurchased alongside the new Sentris® Core license at the prevailing rates as listed in the IT Commercial Price List at the time of renewal.

Feature Pack	Description	Pricing
Sentris® Protection for Microsoft SharePoint	Sentris® Protection for SharePoint integrates the Sentris® labeling and access control platform with Microsoft SharePoint Server to safeguard classified data, protecting sites, lists, and items while preserving SharePoint's collaborative functionality.	\$63,000.00 <i>Up to 10,000 users</i>
Sentris® Protection for Microsoft Exchange	Sentris® Protection for Exchange is a classification labeling and validation solution designed for Microsoft Exchange and Outlook, ensuring secure email communication by enforcing access controls and validating recipient authorization in real time.	\$36,750.00 <i>Up to 10,000 users</i>
Sentris® Protection for Microsoft Skype for Business	Sentris® Protection for Skype for Business provides conversation labeling, participant filtering, and file transfer controls to secure and manage communications in Skype for Business 2019.	\$36,750.00 <i>Up to 10,000 users</i>
Sentris® Protection for File Shares	Sentris® Protection for File Shares leverages the Windows File Classification Infrastructure to assign classification properties to files regardless of where they reside and employs Dynamic Access Control to manage and secure file access based on the assigned classification attributes.	\$31,500.00 <i>Up to 10,000 users</i>
Sentris® Labeling for PDF	Sentris® Labeling for PDF is a classification labeling utility, facilitating the document marking process for PDF files while enforcing access-based labeling criteria, automatically detecting sensitive content, and enabling backups of original PDF files before applying Sentris® marking labels.	\$31,500.00 <i>Up to 10,000 users</i>
Sentris® Toolkit	The Sentris® Toolkit consists of the Sentris® Management Shell and Sentris® SharePoint Management Shell, and access to a library of custom scripts. The Management Shells provide administrators with a powerful Command Line Interface (CLI) alternative, enabling greater control and flexibility for managing the Sentris® environment programmatically.	\$21,000.00 <i>Requires Enhanced Support Subscription of SILVER or higher</i>

Feature Pack licenses are required per 10,000 users per network and may be installed on any number of servers or desktops within the network to accommodate load balancing, clustering, and high-availability configurations.

SENTRIS® ADD-ONS

Option	Description	Pricing
Add-On: Sentris® ProStart	<p>Sentris® ProStart combines two on-site engagements with members of the Sentris® Product Team. The engagements provide Sentris® Certified Engineer Training and Sentris® installation and configuration support for Sentris® Systems and Features, as well as emulation of Sentris® deployments.</p> <p>Includes:</p> <ul style="list-style-type: none"> ✓ 1 (5-Day) Sentris® Certified Engineer Instructor-Led Training for up to 10 Students ✓ 1 (5-Day) On-Site Engagement for Installation & Configuration Support of a Sentris® Environment (to be scheduled and completed within 90-days of the 5-day training) ✓ 90 Days of Tier 3+ priority ticketing & phone support with one (1) business day response time (begins once the 5-day training is completed) <p><i>The Sentris® ProStart Engagement does not include the services provided under a Sentris® Enhanced Support Subscription and, as such, does not grant access to the Sentris® Toolkit Feature Pack. Support under the ProStart Engagement is strictly limited to the execution of the defined Training and On-Site Support engagements.</i></p>	<p>\$103,000.00</p> <p><i>Training must be scheduled and completed within 90 days of purchase</i></p>
Enhanced Support Add-On: Web-based meetings and/or phone calls	<p>Five (5) additional 45-minute web-based meetings and/or phone calls that can be used any time during the period of performance of the customer's Enhanced Support Subscription.</p> <p><i>REQUIRES AN ENHANCED SUPPORT SUBSCRIPTION OF BRONZE OR HIGHER.</i></p>	<p>\$2,000.00</p> <p><i>Billed Annually</i></p>
Add-On: Additional TPOC	<p>Additional Technical Points of Contact (TPOC) seats are per person / per month (billed annually) and will align with the license expiration date (prorating available).</p> <p>The following list outlines the maximum number of additional TPOCs <i>that can be purchased</i> per Support Subscription:</p> <ul style="list-style-type: none"> ◆ STANDARD – may purchase 1 additional TPOC ◆ BRONZE – may purchase up to 2 additional TPOCs ◆ SILVER – may purchase up to 3 additional TPOCs ◆ GOLD – may purchase up to 4 additional TPOCs ◆ PLATINUM – may purchase up to 6 additional TPOCs 	<p>\$309.00</p> <p><i>Per TPOC / Per Month Billed Annually</i></p>

SENTRIS® TRAINING

Enhance your team's skills and confidence with our comprehensive Sentris® Certified Engineer Instructor-Led Training (ILT).

This instructor-led course provides hands-on training for using Sentris® covering installation planning, installation, configuration, and advanced architectures for SAs, SEs, IAT, IAM, PSO.

Course Highlights:

- **Duration:** 5 days
- **Maximum Enrollment:** 10 Students
- **Interactive Learning:** Practical exercises with the Sentris® software to reinforce key concepts
- **Comprehensive Curriculum:** Detailed agenda included with quote
- **Course Materials:** All necessary materials provided electronically
- **Certification:** Certificate awarded upon successful completion of the course and examination

Options	Pricing
<p>SENTRIS® CERTIFIED ENGINEER INSTRUCTOR-LED TRAINING (ILT) IN PERSON</p> <ul style="list-style-type: none"> ● Duration: 5 Consecutive Days ● Maximum course capacity: 10 students ● Customer responsible for securing classroom or suitable training space equipped with a projector or screen <p><i>This course is taught over 5 consecutive days. To qualify for the certification, students must attend all 5 days of the training.</i></p>	<p>\$36,050.00 <i>Up to 10 students</i></p>
<p>SENTRIS® CERTIFIED ENGINEER INSTRUCTOR-LED TRAINING (ILT) VIRTUAL</p> <ul style="list-style-type: none"> ● Duration: 5 Consecutive Days ● Maximum course capacity: 10 students <p><i>This course is taught over 5 consecutive days. To qualify for the certification, students must attend all 5 days of the training.</i></p> <p>TeamViewer Remote Desktop Tool is utilized to provide remote access to the training environment. If attendees will be accessing the training through company equipment, you will need to seek approval for downloading and installing this software prior to the training.</p>	<p>\$25,750.00 <i>Up to 10 students</i></p>

SENTRIS® ENHANCED SUPPORT

Level	Description	Pricing
PLATINUM	<p>Tier 3+ PLATINUM Enhanced Support Subscription provides troubleshooting and analysis of Sentris® deployments in an enterprise environment.</p> <p>Includes:</p> <ul style="list-style-type: none"> ✓ Two (2) additional Technical Points of Contact (TPOC) ✓ Includes Sentris® Toolkit Feature Pack** (\$21,000 value) ✓ Priority ticketing support with two (2) business hour response time ✓ Eight (8) onsite* engagements for routine Sentris® health checks and troubleshooting ✓ Training Option: One (1) on-site engagement can be exchanged for a 5-day virtual training session for up to 10 students ✓ Customers may schedule up to two (2) 45-minute web-based meetings or phone calls per month throughout the contract period to address any questions or concerns - <i>unused sessions expire monthly, do not rollover and must be scheduled with five (5) business days advance notice</i> ✓ Scheduled support outside of standard business hours available with five (5) business days' advance notice ✓ Ability to purchase up to six (6) additional TPOCs 	<p>\$283,250.00</p> <p><i>Annually</i></p>
GOLD	<p>Tier 3+ GOLD Enhanced Support Subscription provides troubleshooting and analysis of Sentris® deployments in an enterprise environment.</p> <p>Includes:</p> <ul style="list-style-type: none"> ✓ One (1) additional Technical Point of Contact (TPOC) ✓ Includes Sentris® Toolkit Feature Pack** (\$21,000 value) ✓ Priority ticketing support with four (4) business hour response time ✓ Four (4) onsite* engagements for routine Sentris® health checks and troubleshooting ✓ Training Option: One (1) on-site engagement can be exchanged for a 5-day virtual training session for up to 10 students ✓ Customers may schedule up to two (2) 45-minute web-based meetings or phone calls per month throughout the contract period to address any questions or concerns - <i>unused sessions expire monthly, do not rollover and must be scheduled with five (5) business days advance notice</i> ✓ Scheduled support outside of standard business hours available with ten (10) business days' advance notice ✓ Ability to purchase up to four (4) additional TPOCs 	<p>\$169,950.00</p> <p><i>Annually</i></p>

Continued on next page

SENTRIS® ENHANCED SUPPORT CONTINUED

Level	Description	Pricing
SILVER	<p>Tier 3+ SILVER Enhanced Support Subscription provides troubleshooting and analysis of Sentris® deployments in an enterprise environment.</p> <p>Includes:</p> <ul style="list-style-type: none"> ✓ Ability to purchase and access the Sentris® Toolkit Feature Pack** ✓ Priority ticketing support with one (1) business day response time ✓ One (1) onsite* engagement for routine Sentris® health checks and troubleshooting ✓ Training Option: One (1) on-site engagement can be exchanged for a 5-day virtual training session for up to 10 students ✓ Customers may schedule up to two (2) 45-minute web-based meetings or phone calls per month throughout the contract period to address any questions or concerns - <i>unused sessions expire monthly, do not rollover and must be scheduled with five (5) business days advance notice</i> ✓ Scheduled support outside of standard business hours available with ten (10) business days' advance notice ✓ Ability to purchase up to three (3) additional TPOCs 	<p>\$87,550.00 <i>Annually</i></p>
BRONZE	<p>Tier 3+ BRONZE Enhanced Support Subscription provides troubleshooting and analysis of Sentris® deployments in an enterprise environment.</p> <p>Includes:</p> <ul style="list-style-type: none"> ✓ Priority ticketing support with one (1) business day response time ✓ Customers may schedule up to two (2) 45-minute web-based meetings or phone calls per month throughout the contract period to address any questions or concerns - <i>unused sessions expire monthly, do not rollover and must be scheduled with five (5) business days advance notice</i> ✓ Ability to purchase up to two (2) additional TPOCs 	<p>\$61,800.00 <i>Annually</i></p>

*Onsite engagements do not rollover and are optional. On-site visits and after-hours/weekend support are subject to resource availability and must be scheduled within the contractually defined period of performance. To ensure availability for onsite services, the customer must submit scheduling requests a minimum of 60 days in advance.

**Access to and continued use of the Sentris® Toolkit Feature Pack requires an Enhanced Support Subscription of SILVER or above and Sentris® v4 2022R1 or higher.

Purchase of an Annual Subscription of Sentris® Enhanced Support or Training at any level, as indicated above, is subject to the terms and conditions of the End User License Agreement ("EULA") between ManTech and Licensee; provided, that any inconsistency, conflict or ambiguity between the EULA and the Service Description herein shall be resolved by giving precedence to the Service Description.

SUPPORT DEFINITIONS COMMERCIAL SOFTWARE & SERVICES

ManTech is committed to providing exceptional support for all our software offerings. Our tiered support model ensures you receive the appropriate level of assistance, from self-service resources to premium support options.

Standard Support (Tiers 0-2)

All ManTech software licenses include comprehensive standard support at no additional cost. This provides a baseline level of assistance for efficient issue resolution and optimal software utilization.

Support Hours: ManTech's standard support hours are 9:00 AM to 5:00 PM Eastern Standard Time (EST), Monday through Friday, excluding U.S. federal holidays.

- **Tier 0: Self-Service Support:** 24/7 access to the Support Portal and Knowledge Base, featuring extensive technical documentation, articles, and solutions to common issues.
- **Tier 1: Assisted Support:** Submit support requests through the Support Portal on Zendesk and receive prompt assistance from our support team for basic troubleshooting and guidance.
- **Tier 2: Incident Resolution:** Escalate complex issues or potential software bugs to our expert engineering team for in-depth analysis and resolution.

Enhanced Support (Tier 3+)

For organizations requiring premium levels of support, we offer Tier 3+ Enhanced Support Subscriptions. These subscriptions are purchased separately as an add-on to your annual software license.

Tier 3+ Benefits:

- **Faster Response Times:** Receive priority ticketing attention with advanced placement in the support queue.
- **Expert Guidance:** Improve operational efficiency with advice and recommendations from our expert technical engineers.
- **Extended Support Hours:** Get the support you need when you need it with coverage beyond standard business hours, including weekends and evenings. *Available with select Enhanced Support subscriptions.*
- **On-Site Support:** Our engineers provide expert assistance at your location. *Available with select Enhanced Support subscriptions.*
- **Monthly Support:** Schedule monthly phone consultations and web-based meetings to discuss performance, address potential issues, and plan for future needs. *Available with select Enhanced Support subscriptions.*
- **Training:** Schedule virtual training sessions to enhance your team's software proficiency. *Available with select Enhanced Support subscriptions.*

Important Notes:

- Specific features and benefits within Enhanced Support subscriptions vary by software offering. Refer to the detailed plan descriptions for each software product.
- Contact our sales team to discuss your Enhanced Support requirements and receive a personalized quote.

**PAYMENT & PRICING INFORMATION
COMMERCIAL SOFTWARE & SERVICES**

ManTech accepts the following payment methods:

- **Purchase Orders:** For approved customers
- **Credit Cards:** Required for all purchases under \$5,000

Payment by credit card is due in full prior to the delivery of any product or service.

All prices are subject to change without prior notice. ManTech reserves the right to adjust pricing in accordance with prevailing industry standards and market trends. Annual price adjustments will include a minimum increase of 3% for services and 5% for software to ensure the continued delivery of high-quality products and support.

For the most up-to-date pricing information, please refer to the latest version of the ManTech IT Commercial Price List available at www.mantech.com/commercial-services.

Commercial Software inquiries and quote requests, please contact: Commercial.Services@ManTech.com

Custom academia discounts and multi-year discounts available upon request



ADVANCED CYBER TRAINING PROGRAM (ACTP)

ManTech's **ADVANCED CYBER TRAINING PROGRAM (ACTP)** provides tailored, industry-leading training on Computer Network Operations Programming. ACTP began in 2009 as a ManTech Independent Research and Development project for internal training and is now a world-class cyber training program.

ACTP exclusively trains ManTech employees and US Government personnel within our military and intelligence community. ACTP's course portfolio provides mission-essential training in Windows, Linux, and Android environments to industry customers. Course delivery is a combination of group lecture, one-on-one instruction, and experiential learning lab exercises. The Linux CNO and Windows CNO Programmer Courses are intensive, hands-on courses focused on developing experienced systems programmers into CNO professionals on the Linux and Windows platforms. These classes are formatted to combine lectures and demonstrations with practical assignments.

An ACTP student in the CNO Programmer Course develops technologies to defend, attack and exploit computer networks. This requires a deep understanding of operating systems and software internals, combined with advanced skills in C, assembly, networking, and reverse engineering. It also requires specialized knowledge and experience that cannot be gained through conventional education or programming work.

Students who complete either CNO Programmer course will return to their team or report for duty on-contract ready to participate in and support the full CNO tool development process.

ACTP instructors perform work on ManTech contract assignments and instruct solely in their areas of subject matter expertise. Instructors are selected and screened based on their technical knowledge, industry experience, and ability to provide instruction in both group and one-on-one training environments.

ManTech's instructors perform this work professionally, continuing to support our customer's most critical missions as they bring those experiences to the classroom.

For additional information on ACTP or to connect with a member of the team, please email ACTP@ManTech.com.

**ADVANCED CYBER TRAINING PROGRAM (ACTP)
TERMS & CONDITIONS**

The terms and conditions outlined below govern the ManTech Advanced Cyber Training Program (ACTP) training courses offered by ManTech Advanced Systems International, Inc. These terms and conditions shall be incorporated into each order for any of the ACTP training courses.

1. **ACCEPTANCE OF TERMS.** ManTech's delivery of the ACTP Training Program is expressly conditioned on Buyer's acceptance of all the terms and conditions set forth herein. No change, modification or revision of these terms and conditions shall be valid unless agreed to in writing by ManTech. ***In the event ManTech accepts Buyer's purchase order/ credit card/ or any other form of payment for the training services, the parties acknowledge that these terms and conditions shall be incorporated into and made a part of each order.***
2. **PAYMENT.** Payment for an Advanced Cyber Training Class is due in full after completion of the course. Payment can be made via purchase order, check or credit card unless another mutually agreed upon payment plan has been agreed to by the parties.
3. **INVOICES.** ManTech will invoice for the ACTP in accordance with ManTech's standard invoicing procedures or in accordance with a mutually agreed upon payment schedule.
4. **REPRODUCTION RIGHTS.** The number of students permitted to attend the course and view the training materials is specified on the quotation. Buyer shall ensure that no additional Buyer employees receive access to the course materials, and shall be liable for an additional course fee for each unauthorized copy made or additional employee permitted to access the materials. Copyright law prohibits unauthorized copying of copyrighted materials. Buyer and all of Buyer's students that take the training shall not make or use any unauthorized copies of software or copyrighted material or forward newsletters or other materials (whether electronic or hard-copy) in violation of license restrictions. Buyer acknowledges and shall comply with all license and copyright restrictions pertaining to all software and copyrighted material presented and or received in the ACTP training program. The ManTech ACTP course materials constitute proprietary ManTech information and content. The materials are copyrighted works of ManTech and third parties.
5. **TITLE TO PROGRAM MATERIALS.** ManTech claims and holds title to all documents and materials furnished to the Buyer for use in connection with the training. Buyer shall not disclose such documents or materials to any person, firm or corporation. The Buyer shall, upon ManTech's request, promptly return all such documents and materials to ManTech.
6. **NON-DISCLOSURE OF TRADE SECRETS.** Buyer and all of Buyer's students agree to keep ManTech's trade secrets, whether or not prepared or developed by ManTech, in the strictest confidence. Buyer will not disclose such secrets to anyone outside ManTech without ManTech's prior written consent. Nor will Buyer make use of any ManTech trade secrets for their own purposes or the benefit of anyone other than ManTech without ManTech's prior written consent.
7. **NON-TRANSFER OF RIGHTS.** Except for the limited rights set forth herein, no right, title, or license, express or implied, under any patent, copyright, trade secret, and/or other intellectual property proprietary right is granted hereunder. All rights not expressly granted by this Agreement are retained by ManTech.
8. **EXPORT CONTROL COMPLIANCE FOR FOREIGN PERSONS.** Buyer shall comply with U.S. State Department (International Traffic in Arms Regulations (ITAR)) and Commerce Department (Export Administration Regulations (EAR)), as well as Industrial Security Requirements. Buyer shall not provide a foreign person (a person who is not a U.S. citizen or permanent resident or a U.S. citizen employee of a foreign owned company not incorporated to do business in the U.S.) access to export controlled technology without proper governmental authorization under the ITAR or EAR, as applicable. Accordingly, Buyer certifies that it will not permit a foreign person to receive the training without the prior written consent of ManTech. Any foreign person's access to ManTech's or ManTech's customer's facilities and computer networks will be restricted and controlled to ensure the foreign person does not have access to ITAR or EAR controlled hardware, technical data, or software/code other than as specifically authorized by the U.S. Department of State or Department of Commerce, as applicable.

LABOR CATEGORY RATES AND DESCRIPTIONS

Labor Category	Labor Category Description	Rate
Cyber Security Operations Specialist 1	Performs analysis of enterprise defensive technologies to include COTS and GOTS products/point solutions. Conducts analysis of security incidents and/or malware incidents/outbreaks. Performs cyber threat analysis and assesses organizations' cyber risk posture. Provides security engineering consulting services related to enterprise cyber defensive tools and technologies. Bachelor's degree preferred, but not required. Specialized training in cyber defense technologies required.	\$110.00
Cyber Security Operations Specialist 2	Performs analysis of enterprise defensive technologies to include COTS and GOTS products/point solutions. Conducts analysis of security incidents and/or malware incidents/outbreaks. Performs cyber threat analysis and assesses organizations' cyber risk posture. Provides security engineering consulting services related to enterprise cyber defensive tools and technologies. Bachelor's degree preferred plus one year relevant experience. Specialized training in cyber defense technologies required.	\$125.00
Cyber Security Operations Specialist 3	Performs analysis of enterprise defensive technologies to include COTS and GOTS products/point solutions. Conducts analysis of security incidents and/or malware incidents/outbreaks. Performs cyber threat analysis and assesses organizations' cyber risk posture. Provides security engineering consulting services related to enterprise cyber defensive tools and technologies. Bachelor's degree preferred plus two years relevant experience. Specialized training in cyber defense technologies required.	\$150.00
Cyber Security Operations Specialist 4	Performs analysis of enterprise defensive technologies to include COTS and GOTS products/point solutions. Conducts analysis of security incidents and/or malware incidents/outbreaks. Performs cyber threat analysis and assesses organizations' cyber risk posture. Provides security engineering consulting services related to enterprise cyber defensive tools and technologies. Bachelor's degree preferred plus 4 years relevant experience. Relevant product or security certification can substitute for 4 years experience. Specialized training in cyber defense technologies required.	\$175.00
Cyber Security Operations Specialist 5	Performs analysis of enterprise defensive technologies to include COTS and GOTS products/point solutions. Conducts analysis of security incidents and/or malware incidents/outbreaks. Performs cyber threat analysis and assesses organizations' cyber risk posture. Provides security engineering consulting services related to enterprise cyber defensive tools and technologies. Bachelor's degree required plus 4 years relevant experience. A master's degree may be substituted for 4 years of experience. Relevant product or security certification may be substituted for 4 years experience. An additional 6 years of relevant experience may be substituted for a Bachelor's degree. Specialized training in cyber defense technologies required.	\$200.00
Cyber Security Operations Specialist 6	Performs analysis of enterprise defensive technologies to include COTS and GOTS products/point solutions. Conducts analysis of security incidents and/or malware incidents/outbreaks. Performs cyber threat analysis and assesses organizations' cyber risk posture. Provides security engineering consulting services related to enterprise cyber defensive tools and technologies. Bachelor's degree required plus 6 years relevant experience. A master's degree may be substituted for 4 years of experience. Relevant product or security certification may be substituted for 4 years experience. An additional 6 years of relevant experience may be substituted for a Bachelor's degree. Specialized training in cyber defense technologies required.	\$225.00

LABOR CATEGORY RATES AND DESCRIPTIONS CONTINUED

Labor Category	Labor Category Description	Rate
Cyber Security Operations Specialist 7	Performs analysis of enterprise defensive technologies to include COTS and GOTS products/point solutions. Conducts analysis of security incidents and/or malware incidents/outbreaks. Performs cyber threat analysis and assesses organizations' cyber risk posture. Provides security engineering consulting services related to enterprise cyber defensive tools and technologies. Conducts network and memory forensics analysis and is skilled at conducting reverse engineering of malicious binaries. Bachelor's degree required plus 8 years relevant experience. A master's degree may be substituted for 4 years of experience. Relevant product or security certification may be substituted for 4 years experience. An additional 6 years of relevant experience may be substituted for a Bachelor's degree. Specialized training in cyber defense technologies required.	\$250.00
Cyber Security Operations Specialist 8	Performs analysis of enterprise defensive technologies to include COTS and GOTS products/point solutions. Conducts analysis of security incidents and/or malware incidents/outbreaks. Performs cyber threat analysis and assesses organizations' cyber risk posture. Provides security engineering consulting services related to enterprise cyber defensive tools and technologies. Conducts network and memory forensics analysis and is skilled at conducting reverse engineering of malicious binaries. Bachelor's degree required plus 10 years relevant experience. A master's degree may be substituted for 4 years of experience. Relevant product or security certification may be substituted for 4 years experience. An additional 6 years of relevant experience may be substituted for a Bachelor's degree. Specialized training in cyber defense technologies required.	\$300.00
Cyber Security Operations Specialist 9	Performs analysis of enterprise defensive technologies to include COTS and GOTS products/point solutions. Conducts analysis of security incidents and/or malware incidents/outbreaks. Performs cyber threat analysis and assesses organizations' cyber risk posture. Provides security engineering consulting services related to enterprise cyber defensive tools and technologies. Conducts network and memory forensics analysis and is skilled at conducting reverse engineering of malicious binaries. Bachelor's degree required plus 12 years relevant experience. A master's degree may be substituted for 4 years of experience. Relevant product or security certification may be substituted for 4 years experience. An additional 6 years of relevant experience may be substituted for a Bachelor's degree. Specialized training in cyber defense technologies required.	\$350.00
Cyber Security Operations Specialist 10	Performs analysis of enterprise defensive technologies to include COTS and GOTS products/point solutions. Conducts analysis of security incidents and/or malware incidents/outbreaks. Performs cyber threat analysis and assesses organizations' cyber risk posture. Provides security engineering consulting services related to enterprise cyber defensive tools and technologies. Conducts network and memory forensics analysis and is skilled at conducting reverse engineering of malicious binaries. Bachelor's degree required plus 14 years relevant experience. A master's degree may be substituted for 4 years of experience. Relevant product or security certification may be substituted for 4 years experience. An additional 6 years of relevant experience may be substituted for a Bachelor's degree. Specialized training in cyber defense technologies required.	\$400.00

LABOR CATEGORY RATES AND DESCRIPTIONS CONTINUED

Code	Labor Category	Labor Category Description	Rate
IT-1	IT Scientist 6	Employees in this category should have combined education and experience as follows: B.S. + 20 years of experience M.S. + 15 years of experience Ph.D. + 10 years of experience.	\$493.00
IT-2	IT Scientist 5	Employees in this category should have combined education and experience as follows: B.S. + 15 years of experience M.S. + 10 years of experience	\$457.00
IT-3	IT Scientist 4	Employees in this category should have combined education and experience as follows: B.S. + 10 years of experience M.S. + 6 years of experience	\$426.00
IT-4	IT Scientist 3	Employees in this category should have combined education and experience as follows: B.S. + 6 years of experience M.S. + 3 years of experience Ph.D. + 2 years of experience.	\$333.00
IT-5	IT Scientist 2	Employees in this category should have combined education and experience as follows: B.S. + 4 years of experience	\$316.00
IT-6	IT Scientist 1	Bachelor's Degree in Mathematics, Physics, Chemistry, or a related field. A minimum of 2 years related experience involving application of scientific principles. Masters Degree preferred.	\$274.00
IT-7	Corporate IT Staff Officers	Bachelor's or Master's Degree in Business Administration, a related discipline or equivalent experience of nine or more years in positions of increasing responsibility including supervisory/management experience.	\$340.00
IT-8	Executive IT Director	Bachelor's Degree plus seven years of relevant technical, professional or management positions or 11.5 years of similar experience. Typically advances through one of the professional areas supervised and is conversant with the spectrum of professional and technical disciplines represented in the organization. Must include previous supervisory/management experience.	\$304.00
IT-9	Technical IT Director	Bachelor's Degree plus five years in relevant technical, professional or management positions or 8.5 years of related experience. Typically advances through performance in and management of a discipline within the area which is supervised. Should have a working knowledge of other disciplines represented in the department. Background must include supervisory/management experience.	\$223.00
IT-10	IT Director	Bachelor's Degree plus two years in relevant technical, professional or management positions. Typically advances through performance in and management of a discipline within the area which is supervised. Should have a working knowledge of other disciplines represented in the department. Background must include supervisory/management experience.	\$187.00
IT-11	Lead Functional IT Analyst	Bachelor's or Master's Degree in Computer Science, Management Information Systems, a related field or equivalent experience. Ten years of increasingly complex and responsible systems analysis experience.	\$232.00
IT-12	Senior Functional IT Analyst	Bachelor's/Master's Degree in Computer Science, Management Information Systems, a related field or equivalent experience. Six years of increasingly complex and responsible systems analysis experience.	\$164.00

LABOR CATEGORY RATES AND DESCRIPTIONS CONTINUED

Code	Labor Category	Labor Category Description	Rate
IT-13	Principal IT Systems Architect	Master's Degree or Ph.D. in Computer Science, a related field or equivalent experience. Ten or more years of applicable progressively complex system design experience including hardware/software integration of complex systems.	\$262.00
IT-14	Senior IT Systems Architect	Master's Degree in Computer Science, a related field or equivalent experience. Eight or more years of applicable progressively complex systems design experience, including hardware/software integration of complex systems.	\$232.00
IT-15	Staff IT Systems Architect	Bachelor's Degree (Master's preferred) in Computer Science, a related field or equivalent experience. Five years system design experience, including hardware/software integration.	\$177.00
IT-16	IT Engineer Software 6	Master's Degree or Ph.D. in Computer Science, a related field or equivalent experience. Ten or more years of progressively complex software design experience.	\$255.00
IT-17	IT Engineer Software 5	Master's/Bachelor's Degree in Computer Science, a related field or equivalent experience. Eight or more years of applicable, progressively more complex software design experience.	\$232.00
IT-18	IT Engineer Software 4	Master's/Bachelor's Degree in Computer Science, a related field or equivalent experience. Six or more years of applicable, progressively more complex software design experience.	\$207.00
IT-19	IT Engineer Software 3	Master's/Bachelor's Degree in Computer Science, a related field or equivalent experience. Four or more years of applicable software design experience.	\$194.00
IT-20	IT Engineer Software 2	Bachelor's Degree in Computer Science, a related field or equivalent experience. Two years applicable software design experience.	\$188.00
IT-21	IT Engineer Software 1	One year applicable software design experience.	\$110.00
IT-22	IT Systems Analyst 6	Bachelor's or Master's Degree in Computer Science, Management Information Systems, a related field or equivalent experience. Ten years of increasingly complex and responsible systems analysis experience.	\$243.00
IT-23	IT Systems Analyst 5	Bachelor's/Master's Degree in Computer Science, Management Information Systems, a related field or equivalent experience. Eight years of increasingly complex and responsible systems analysis experience.	\$213.00
IT-24	IT Systems Analyst 4	Bachelor's/Master's Degree in Computer Science, Management Information Systems, a related field or equivalent experience. Six years of increasingly complex and responsible systems analysis experience.	\$182.00
IT-25	IT Systems Analyst 3	Bachelor's/Master's Degree in Computer Science, Management Information Systems, a related field or equivalent experience. Four years of increasingly complex and responsible systems analysis experience.	\$152.00

LABOR CATEGORY RATES AND DESCRIPTIONS CONTINUED

Code	Labor Category	Labor Category Description	Rate
IT-26	IT Systems Analyst 2	Bachelor's Degree in Computer Science, Management Information Systems, or related field or equivalent experience.	\$134.00
IT-27	IT Systems Analyst 1	Two years of systems analysis experience.	\$90.00
IT-28	Lead IT Analyst Systems	Bachelor's or Master's Degree in Computer Science, Management Information Systems, a related field or equivalent experience. Nine years of increasingly complex and responsible systems analysis experience.	\$201.00
IT-29	Senior IT Analyst Systems	Bachelor's/Master's Degree in Computer Science, Management Information Systems, a related field or equivalent experience. Six years of increasingly complex and responsible systems analysis experience.	\$177.00
IT-30	Senior IT Applications Engineer	Master's/Bachelor's Degree in Computer Science, a related field or equivalent experience. Eight or more years of applicable, progressively more complex software design experience.	\$218.00
IT-31	Staff IT Application Engineer	Master's/Bachelor's Degree in Computer Science, a related field or equivalent experience. Seven or more years of applicable, progressively more complex software design experience.	\$188.00
IT-32	Junior IT Application Engineer	Master's/Bachelor's Degree in Computer Science, a related field or equivalent experience. Five or more years of software design experience.	\$152.00
IT-33	Senior IT Analyst Programming	Requires a bachelor's degree or equivalent experience and six or more years of related experience.	\$164.00
IT-34	Staff IT Analyst Programming	Requires a bachelor's degree or equivalent experience and four- five years of related experience.	\$146.00
IT-35	Assoc. IT Analyst Programming	Requires a bachelor's degree or equivalent experience and one-three years of related experience.	\$97.00
IT-36	IT Engineer Systems 6	Master's Degree or Ph.D. in Computer Science, a related field or equivalent experience. Fifteen or more years of applicable progressively complex system design experience including hardware/software integration of complex systems.	\$274.00
IT-37	IT Engineer Systems 5	Master's Degree in Computer Science, a related field or equivalent experience. Eight or more years of applicable progressively complex systems design experience, including hardware/software integration of complex systems.	\$262.00
IT-38	IT Engineer Systems 4	Bachelor's degree in computer science, a related field, or equivalent experience. Eight or more years of applicable systems design experience, including hardware/software integration.	\$252.00
IT-39	IT Engineer Systems 3	Bachelor's degree in computer science, a related field, or equivalent experience. Six or more years of applicable systems design experience, including hardware/software integration.	\$245.00
IT-40	IT Engineer Systems 2	Bachelor's Degree (Master's preferred) in Computer Science, a related field or equivalent experience. Five years system design experience, including hardware/software integration.	\$213.00
IT-41	IT Engineer Systems 1	Bachelor's Degree in Computer Science, a related field or equivalent experience. Two years system design experience including hardware/software integration experience.	\$158.00

LABOR CATEGORY RATES AND DESCRIPTIONS *CONTINUED*

Code	Labor Category	Labor Category Description	Rate
IT-42	Lead IT Analyst Database Design	Bachelor's or Master's Degree in Computer Science, Management Information Systems, a related field or equivalent experience. Eight years of progressively responsible database design and implementation experience.	\$218.00
IT-43	Senior IT Analyst Database Design	Bachelor's/Master's Degree in Computer Science, Management Information Systems, a related field or equivalent experience. Six years of progressively responsible database design and implementation experience.	\$164.00
IT-44	Staff IT Analyst Database Design	Bachelor's/Master's Degree in Computer Science, Management Information Systems, a related field or equivalent experience. Two years related database design and implementation experience.	\$110.00
IT-45	Staff IT Data Entry Clerk	Normally requires at least eighteen months of experience.	\$66.00
IT-46	Senior IT Analyst Training	Bachelor's Degree or equivalent experience. Five years of related experience.	\$177.00
IT-47	Staff IT Analyst Training	Bachelor's Degree or equivalent experience. Two to five years of related experience.	\$146.00
IT-48	Staff IT Software Trainer	Bachelor's Degree or equivalent experience. Four years of related experience.	\$146.00
IT-49	Technical IT Specialist Engineering	Technical training equal to an Associates Degree and six years of related technical experience.	\$146.00
IT-50	Senior IT Technician Engineering	Requires technical training or equivalent experience and four to five years experience as an engineering technician.	\$121.00
IT-51	IT Network Engineer 6	Master's Degree in Computer Science, a related field or equivalent experience. Eight or more years of applicable progressively complex systems design experience, including hardware/software integration of complex systems.	\$258.00
IT-52	IT Network Engineer 5	Bachelor's Degree in Computer Science, a related field or equivalent experience. Six or more years of applicable progressively complex systems design experience, including hardware/software integration of complex systems.	\$245.00
IT-53	IT Network Engineer 4	Bachelor's Degree (Masters preferred) in Computer Science, a related field or equivalent experience. Five years system design experience, including hardware/software integration.	\$188.00
IT-54	IT Network Engineer 3	Bachelor's Degree in Computer Science, a related field or equivalent experience. Two years system design experience including hardware/software integration experience.	\$134.00
IT-55	IT Network Engineer 2	Bachelor's Degree in Computer Science, a related field or equivalent experience.	\$104.00
IT-56	IT Network Engineer 1	One year experience required.	\$90.00
IT-57	Senior IT Manager LAN Admin.	Requires a bachelor's degree and two years of related experience. Additional experience may be substituted for the degree.	\$121.00

LABOR CATEGORY RATES AND DESCRIPTIONS CONTINUED

Code	Labor Category	Labor Category Description	Rate
IT-58	Staff IT Technician - Writing	Bachelor's Degree in an applicable technical field or equivalent experience and excellent written communication skills. Two years of technical writing and editing experience.	\$110.00
IT-59	Secretary/Adm in IT Asst - 3	Normally requires three years of relevant work experience and a high school diploma.	\$121.00
IT-60	Secretary/Adm in IT Asst - 2	Normally requires one year of relevant work experience and a high school diploma.	\$90.00
IT-61	Secretary/Adm in IT Asst - 1	Requires no experience.	\$50.00
IT-62	IT Project Engineer - 7	Bachelor's Degree in Engineering, or equivalent. Seven years of project engineering experience.	\$237.00
IT-63	IT Project Engineer - 6	Bachelor's Degree (Masters preferred) in engineering or a related field. Four years of engineering experience.	\$199.00
IT-64	IT Project Engineer - 5	Bachelor's degree in engineering or equivalent experience. Three years of engineering experience.	\$175.00
IT-65	IT Project Engineer - 4	Bachelor's degree in engineering and two years of equivalent engineering experience.	\$158.00
IT-66	IT Project Engineer - 3	Bachelor's degree in engineering and one year of equivalent engineering experience.	\$146.00
IT-67	IT Project Engineer - 2	High School Diploma and four years of equivalent engineering experience.	\$135.00
IT-68	IT Project Engineer - 1	One year engineering experience.	\$115.00
IT-69	Computer Forensics and Intrusion Task Manager	Requires a bachelor's degree in a related field. Ten (10) years of increasing responsibilities in IA technical guidance and leadership. Seven (7) years in computer intrusion analysis and investigation, intrusion operations and detection; computer network surveillance/monitoring; vulnerability assessments; hacker methodologies and techniques; computer network exploitation methodology and techniques; computer attack and exploitation methodologies and techniques; firewall exploitation. Seven (7) years in network protocols; network devices; computer security devices; multiple operating systems; secure architecture, methodologies, and tools; hardware and software configurations; and network LAN/WAN system administration in support of computer intrusion operations.	\$609.00
IT-70	Computer Forensics and Intrusion Principal Analyst	Requires a bachelor's degree in a related field. Eight (8) years of increasing responsibilities in IA technical guidance and leadership. Five (5) years in computer intrusion analysis and investigation, intrusion operations and detection; computer network surveillance/monitoring; vulnerability assessments; hacker methodologies and techniques; computer network exploitation methodology and techniques; computer attack and exploitation methodologies and techniques; firewall exploitation. Five (5) years in network protocols; network devices; computer security devices; multiple operating systems; secure architecture, methodologies, and tools; hardware and software configurations; and network LAN/WAN system administration in support of computer intrusion operations.	\$542.00

LABOR CATEGORY RATES AND DESCRIPTIONS CONTINUED

Code	Labor Category	Labor Category Description	Rate
IT-71	Computer Forensics and Intrusion Senior Analyst	Requires a bachelor's degree in a related field. Five (5) years experience in IA. Demonstrated ability to work independently or under only general supervision. Three (3) years in computer intrusion analysis and investigation, intrusion operations and detection; computer network surveillance/monitoring; vulnerability assessments; hacker methodologies and techniques; computer network exploitation methodology and techniques; computer attack and exploitation methodologies and techniques; firewall exploitation. Three (3) years in network protocols; network devices; computer security devices; multiple operating systems; secure architecture, methodologies, and tools; hardware and software configurations; and network LAN/WAN system administration in support of computer intrusion operations.	\$432.00
IT-72	Computer Forensics and Intrusion Staff Analyst	Requires a bachelor's degree in a related field. Two (2) years experience in IA to include computer network surveillance/monitoring; vulnerability assessments; network protocols; network devices; computer security devices; hardware and software configurations; and network LAN/WAN system administration in support of information assurance.	\$322.00
IT-73	Computer Forensics and Intrusion Junior Analyst	One (1) year of experience in IA to include computer network surveillance/monitoring; vulnerability assessments; network protocols; network devices; computer security devices; hardware and software configurations; and network LAN/WAN system administration in support of information assurance.	\$213.00
IT-74	IT Information Assurance Specialist	Bachelor's degree preferred. Ten years of information security experience	\$182.00
IT-75	IT Acquisition Specialist	Bachelor's degree and 10 years of experience providing technology solutions for acquisition management.	\$232.00
IT-76	Database Administrator	Bachelor's degree preferred. Two or more years of experience administering databases to include testing backups, data integrity, and ensuring maximum uptime.	\$171.00
IT-77	IT Analyst 6	Bachelor's degree preferred. Seven years of experience providing the highest authoritative analytic leadership and consultation.	\$292.00
IT-78	IT Analyst 5	Bachelor's degree preferred. Six years of experience providing the highest authoritative analytic leadership and consultation.	\$263.00
IT-79	IT Analyst 4	Bachelor's degree preferred. Five years of experience providing the highest authoritative analytic leadership and consultation.	\$234.00
IT-80	IT Analyst 3	Bachelor's degree preferred. Four years of experience providing the highest authoritative analytic leadership and consultation.	\$205.00
IT-81	IT Analyst 2	Bachelor's degree preferred. Two years of experience providing skilled analytic leadership and consultation.	\$182.00
IT-82	IT Analyst 1	High School and three years of relevant experience. Assists senior analysts in providing analysis and consultation.	\$152.00
IT-83	Documentation Specialist 2	Bachelor's degree preferred. One year experience developing drafts and finalizing information technology documentation.	\$129.00

LABOR CATEGORY RATES AND DESCRIPTIONS CONTINUED

Code	Labor Category	Labor Category Description	Rate
IT-84	Documentation Specialist 1	High School and three years of relevant experience. Develops drafts and finalizes information technology documentation.	\$90.00
IT-85	Project Administration 5	Bachelor's degree preferred. Four years experience preparing project management administrative plans and reports.	\$158.00
IT-86	Project Administration 4	Bachelor's degree preferred. Three years experience preparing project management administrative plans and reports.	\$146.00
IT-87	Project Administration 3	Bachelor's degree preferred. Two years experience preparing project management administrative plans and reports.	\$123.00
IT-88	Project Administration 2	High school and three years of relevant experiences. Assists in preparing project management administrative plans and reports.	\$111.00
IT-89	Project Administration 1	High school and two years of relevant experiences. Assists in preparing project management administrative plans and reports.	\$87.00
IT-90	System Intern	Performs general entry level information technology support duties under direct supervision.	\$50.00
IT-91	Risk Mgmt. Specialist	Bachelor's degree required. Five years of experience in identifying critical information that must be protected, performing risk assessments of customer activities using proprietary tools, and developing mitigation measures.	\$146.00
IT-92	Sr. Risk Mgmt. Specialist	Bachelor's degree required. Ten years of experience in identifying critical information that must be protected, performing risk assessments of customer activities using proprietary tools, and developing mitigation measures. May provide security awareness, education and training.	\$171.00
IT-93	Sr. Info. Sys. Risk Mgmt Analyst	Bachelor's degree required. Ten years experience performing system security analyses including security audits, evaluations, and risk assessments of complex operational data processing communications systems and facilities and provide recommendations for countering detected vulnerabilities	\$182.00
IT-94	Principal Info. Sys. Risk Mgmt Analyst	Bachelor's degree required. Thirteen years experience performing system security analyses including security audits, evaluations, and risk assessments of complex operational data processing communications systems and facilities and provide recommendations for countering detected vulnerabilities	\$207.00
IT-95	Principal Risk Mgmt. Analyst	Bachelor's degree required. Thirteen years of experience in identifying critical information that must be protected, performing risk assessments of customer activities using proprietary tools, and developing mitigation measures. May provide security awareness, education and training.	\$194.00
IT-96	System Security Engineer	Bachelor's degree required. Five or more years experience applying computer science technologies to the design, development, evaluation, and integration of computer systems and networks to maintain system security.	\$182.00
IT-97	Security Specialist	Associate's Degree required. Four years of experience monitoring security standards and compliance	\$171.00
IT-98	System Administrator	High School and 2 years relevant systems administration experience.	\$130.00

PORTAL CONTENT MANAGEMENT SERVICES

Portal Content Management Services – Onsite/Customer site support including:

Network Engineering Services and Administration Support

- Encompasses the Digital Library System TCP/IP network
- Includes customized integration and WAN distribution of non-network based commercial application databases.

Product Installation Services

- Level of product installation service dependent on specific requirements.

Training for Support and End-users

- Provided on-site
- Customized to the application and audience
- Remote training and troubleshooting applications also included

Maintenance of a bank of URL links

- URLs are built, tested, stored, maintained and available to users via the portal
- Service includes up to 150 links
- Service for greater than 150 links is available in increments of up to 50 links

Documentation of services provided

- Provided to the customer annually in electronic format

Unit Prices:

Up to 150 links:	\$530,000
Additional 50 links:	\$180,000

These prices are for work at a customer facility, using customer-provided equipment. Prices are set for a 1-year contract period. Payments may be made in one up-front, lump sum amount; or as a monthly payment, at the beginning of each month. At any time during the contract period, you may purchase a higher level of service for the duration of the established contract period. At the end of the established contract period, new services terms may be elected, and a new contract term will be set.

INTRODUCTION TO THE ANDROID INTERNALS COURSE

COURSE DESCRIPTION

The Android Internals course builds on the foundation established in the Android Programming course. This course dives deeper into the Android operating system to explore concepts such as the internals of APKs, Package Manager, Activity Manager, Zygote, Android Services and other core components of Android. Students will have a strong understanding of the Android Radio Interface layer. They will know how to hide phone calls, send hidden text messages, alter text messages, etc. Students will be able to describe how Wi-Fi works on Android, and how network technology preference works (Wi-Fi over Cellular). Students will also learn about security on Android and be able to determine which security mechanism is stopping a particular action from occurring.

PREREQUISITE(S)

Students should have a Bachelor's degree in Computer Science or Computer Engineering, or equivalent experience. Students should also possess high academic achievement or operational/technical experience and an intense desire to learn. This course assumes basic knowledge of Java and C programming.

WHO SHOULD ATTEND

- Developers and researchers looking to learn how to write code for mobile platforms.
- Android developers looking to write more secure code
- Security researchers looking to gain insight into the Android OS architecture.

COURSE DETAILS

- 5 days
- 19 Labs
- 3 quizzes, 1 practical exam
- Android devices and development environment is provided

ENROLLMENT

Submit student enrollment requests to ACTP@ManTech.com. The training administrator will expedite your request and payment requirements. At this time, enrollment is limited to ManTech employees and government employees. Please contact ACTP@ManTech.com with any questions.

TUITION

Tuition Price for the course which includes all material is \$3300 per seat.

INSTRUCTORS

Our instructors are members of an elite group of cyber professionals and have been chosen for their technical knowledge, industry experience, and facilitation skills. Instructors who understand the real challenges facing programmers because they perform the work professionally every day.

TRAINING FACILITIES

We have training facilities in Hanover, Maryland, Jessup, Maryland and San Antonio, Texas. Our VTC and Virtual Instructor Led Training are available as well as on-site training.

CLASS SIZE

Minimum class size is six (6). Two instructors will be provided for class sizes exceeding ten students.

GRADING

Quizzes and Labs are administered as knowledge checks during the course regularly. Class culminates in a final exam.

COURSE CONTENT - INTRODUCTION TO THE ANDROID INTERNALS COURSE

Day 1:

- Explore the various partitions of an Android device
- Understand each phase of the boot process for Android
- Learn about the role that Verified boot plays in protecting Android devices
- Learn about A/B slots
- Understand the changes that came from project Treble in Android 8.0
- Analyze the init script in Android to understand how it initializes the OS
- Learn about the various daemons that init starts and what their roles are
- Learn about the various stages of init (i.e. first, second, early-init, init, late-init etc)
- Understand the role that Properties plays in configuring and initializing Android
- Students will be able to freely navigate, build, and deploy Android builds from source
- Students will be able to dump the device's bootloaders and understand the different stages of verified boot in Android
- Students will learn how to redirect files that are mounted on a read only filesystem

Day 2:

- Understand the crucial role Zygote plays in initializing apps
- Explore the differences between the Dalvik VM and ART
- Write a program to communicate directly with Zygote to spawn a new process
- Understand the relationship between System Server and Service Manager
- Understand and describe how the core services are laid out, and what functionality is provided by which service
- Understand how services are managed and located
- Learn about the internals of the APK structure
- Learn about .dex, .odex, .art files
- Understand the various ways to sign an APK and the security implications of each one

Day 3:

- Decompile APKs
- Reverse engineering APKs
- Learn about smali and baksmali
- Understand each step of installing an APK to an Android device
- Be able to manually create Java applications outside of the Android Framework
- Understand the Package Manager and its role
- Know how to interact with the Activity Manager via native code
- Understand the internals of Binder
- Use Binder using native code
- Understand exploit vulnerabilities from cross-app permission use

Day 4:

- Learn the Android Bluetooth Stack
- Covertly communicate over Bluetooth with other devices
- Learn how Android communicates with the baseband on the device
- Understand how vendors provide proprietary libraries to implement the radio interface layer
- Students will have a strong understanding of the Android Radio Interface layer. They will know how to hide phone calls, send hidden text messages, fake text messages, alter text messages etc
- Learn about the various Wi-Fi protocols and what a Wi-Fi looks like
- Learn about the various Wi-Fi technologies supported by Android (Wi-fi direct, Wi-Fi aware etc)

Day 5:

- Learn about the many security mechanisms added to Android from 1.5 up to current
- Learn about DAC vs MAC
- Understand how Android leverages users and groups in Linux to enforce access control and sandboxing
- Understand the role SELinux plays in securing Android devices
- Understand the role capabilities plays in securing Android devices
- Understand how permissions at the application manifest level are enforced in the kernel
- Explore the role of seccomp

INTRODUCTION TO ANDROID PROGRAMMING

COURSE DESCRIPTION

The Android Programming course is a unique course offering students the ability to explore the Android operating system. This lab-driven class exposes students to the entire OS API, covering everything from development of Android applications using the SDK and Android Studio to how these APIs map to native libraries, the Linux kernel, and Android specific kernel components. There is also a heavy emphasis on security at each level covered, including features and developments from the latest releases of Android.

PREREQUISITE(S)

Students should have a Bachelor's degree in Computer Science or Computer Engineering, or equivalent experience. Students should also possess high academic achievement or operational/technical experience and an intense desire to learn. This course assumes basic knowledge of Java and C programming.

COURSE DETAILS

- 5 days
- 19 Labs
- 3 quizzes, 1 practical exam
- Android devices and development environment is provided

ENROLLMENT

Submit student enrollment requests to ACTP@ManTech.com. The training administrator will expedite your request and payment requirements. At this time, enrollment is limited to ManTech employees and government employees. Please contact ACTP@ManTech.com with any questions.

TUITION

Tuition Price for the course which includes all material is \$3300 per seat.

INSTRUCTORS

Our instructors are members of an elite group of cyber professionals and have been chosen for their technical knowledge, industry experience, and facilitation skills. Instructors who understand the real challenges facing programmers because they perform the work professionally every day.

CLASS SIZE

Maximum class size is sixteen students. Minimum class size is eight students. An assistant instructor will be provided for class sizes exceeding eight students.

TRAINING FACILITY

We have training facilities in Hanover, Maryland, Jessup, Maryland and San Antonio, Texas. Our VTC and Virtual Instructor Led Training are available as well as on-site training.

GRADING

This class features one or more quizzes and a final exam. An exam score of 80% is a passing grade. Students who complete the course with an 80% or better are awarded a certificate acknowledging successful completion of the course. Students that do not receive a certifying grade will receive certificates of attendance.

COURSE CONTENT - INTRODUCTION TO ANDROID PROGRAMMING

Day 1:

- Understand the overall Android architecture
- Explore the Android Open Source Project (AOSP) and learn about its structure
- Learn to use the Android Debugging Bridge (ADB) to install APKs, push and pull files from a device, view logs, and gain shell access
- Learn about the various Android device modes and what they are used for
- Use Android Studio to build applications
- Understand the structure and lifecycle Android applications
- Explore the use of Application Manifests and how they relate to intents and permissions
- Understand the various states of a process (foreground, visible, cached, etc.)
- Understand what rooting is and why you might want to root a device
- Discuss bootloaders (locked and unlocked) and how they relate to the security of a device
- Understand the Android file system by finding where applications, shared libraries, media content and other core files are stored on the device
- Learn about the steps an Android device takes to boot
- Root and flash your phone

Day 2:

- Learn about the activity lifecycle
- Gain hands on experience using explicit and implicit intents as well as intent filters
- Use the application manager utility to send various kinds of intents
- Implement Foreground and Background services
- Explore the service lifecycle
- Send and receive broadcast intents
- Learn about the various Android permissions and how they are granted
- Android Services: development, types, AIDL interface language
- Implement applications that use explicit and implicit intents

Day 3:

- Understand the nature of Android Content Providers and their role in application development
- Understand what Framework Services are and their role
- Learn about the Binder driver – functionality, implementation
- Interact with various sensors on the device
- Understand how to access sensor services on the device
- Write an application using Android JNI
- Native Code and Native Development Kit (NDK) introduction

Day 4:

- Android Native Sensors
- Android Native Service development
- Cross-compilation process
- Android Native to Java Communication Models
- Understand how a call from an application flows down to the hardware
- Learn about the various types of hardware abstraction layers (HAL) throughout the versions
- Understand how the init initializes the Android operating system

Day 5:

- In-depth Practical. This includes completing various tasks that cover concepts taught throughout the course. Some tasks are standalone, and others require you to complete a previous task before being able to complete the next one.

LINUX CNO PROGRAMMER COURSE

The Linux Computer Network Operations (CNO) Programmer course is an intensive, hands-on course focused on providing students with the skills and knowledge needed to become an advanced CNO programmer, with emphasis in the Linux environment. Students embark on a 10-week journey, beginning at using user space POSIX APIs, continuing to advanced topics such as manipulating ELF files and exploiting vulnerable services, and ending with the design and deployment of CNO tools within the Linux kernel itself. The class format combines lectures and demonstrations with practical lab assignments, including two “crucible labs” that function as culminating exercises.

Full course enrollment is \$32,220. Modular and weekly enrollments are offered based on seat availability. Online and remote enrollments are also available upon request. Please see pricing below.

To enroll, contact the ACTP team via email at ACTP@ManTech.com.

CNO CORE (17 DAYS)		
Python	3 Days	The Python class is an introduction to the Python programming language with an emphasis on tools and techniques that are useful for CNO tasks such as test development and vulnerability research.
Networks	5 Days	The Networks class is a practical exploration of IPv4 and IPv6 networks and sockets programming.
Assembly	3 Days	The Assembly class covers the x86 (IA-32) and x86-64 (AMD64) assembly languages.
Software Reverse Engineering	5 Days	The Software Reverse Engineering class introduces tools and techniques for analyzing x86 and x86-64 executable files.
Core Crucible	1 Day	In the Core Crucible, students work in teams to analyze and exploit a botnet.
CNO Core Modular Enrollment		\$11,220

LINUX CNO PROGRAMMER COURSE *CONTINUED*

LINUX USER MODE DEVELOPMENT (20 DAYS)		
Linux Systems Programming	4 Days	The Linux Systems Programming class introduces Linux development tools and the POSIX and Linux APIs.
Linux Internal	4 Days	Linux Internals delves further into Linux with advanced uses of the POSIX API, C library internals, parsing and manipulation of ELF files, and Linux-specific system calls.
Linux CNO User Mode Development	5 Days	Building on the material from the preceding classes, the CNO User Mode Development class provides instruction on fundamental techniques and best practices for CNO tool development.
Linux Vulnerability Research and Exploitation	5 Days	Students in the Vulnerability Research and Exploitation class learn how to analyze and exploit vulnerabilities in software.
Linux User Mode Crucible	2 Days	In the User Mode Crucible, students work in teams to analyze and exploit a vulnerable network service.
User Mode Development Modular Enrollment		\$14,000

LINUX KERNEL MODE DEVELOPMENT (8 DAYS)		
Linux Kernel Internals	3 Days	The Kernel Internals class introduces students to the major subsystems, configuration and compilation, and module/driver development for the Linux kernel.
Linux CNO Kernel Mode Development	5 Days	The CNO Kernel Mode Development class builds on the previous class to introduce techniques useful for Linux Kernel CNO.
Kernel Mode Development Enrollment		\$7,000

WINDOWS CNO PROGRAMMER SYLLABUS

COURSE DESCRIPTION

The Windows Computer Network Operations Programmer course is an intensive, hands-on course focused on providing a programmer with the skills and knowledge needed to become an advanced CNO programmer, with emphasis in the Windows environment. The class format combines both lecture and labs for practical application of knowledge, including two labs that function as culminating exercises.

LEARNING OUTCOMES

After the completion of the three modules, the student will be capable of assisting in the CNO tool development lifecycle. The student will understand the tool objectives, environments, obstacles and pitfalls associated with development, as well as strategies to meet objectives effectively and efficiently.

COURSE OUTLINE

The course contains the following modules:

Core Module

- Python (3 Days)
- Networks (5 Days)
- Assembly (3 Days)
- Software Reverse Engineering (5 Days)
- Core Crucible (1 Day)

User Mode Development Module

- Windows System Programming (4 Days)
- Windows Internals (4 Days)
- CNO User Mode Development (5 Days)
- Vulnerability Research and Exploitation (5 Days)
- User Mode Crucible (2 Days)

Kernel Mode Development Module

- Kernel Internals (5 Days)
- CNO Kernel Mode Development (3 Days)

PREREQUISITE(S)

Students should have a Bachelor's degree in Computer Science or Computer Engineering, or equivalent experience. Students should also possess high academic achievement or operational/technical experience and an intense desire to learn. This course requires previous programming experience in C. Students should possess experience in Windows Programming and IA-32 assembly.

ENROLLMENT

Submit student enrollment requests to ACTP@ManTech.com. The training administrator will expedite your request and payment requirements. Please contact ACTP@ManTech.com with any questions.

TUITION

Full course enrollment is \$26,250. Modular and weekly enrollments are offered based on seat availability. Online and remote enrollments are also available upon request.

COURSE LENGTH

The entire course is approximately 45 days in length.

We also offer modular enrollment, based on seat availability (please see pricing below).

WINDOWS CNO CORE (17 DAYS)		
Python	3 Days	The Python class is an introduction to the Python programming language with an emphasis on tools and techniques that are useful for CNO tasks such as test development and vulnerability research.
Networks	5 Days	The Networks class is a practical exploration of IPv4 and IPv6 networks and sockets programming.
Assembly	3 Days	The Assembly class covers the x86 (IA-32) and x86-64 (AMD64) assembly languages.
Software Reverse Engineering	5 Days	The Software Reverse Engineering class introduces tools and techniques for analyzing x86 and x86-64 executable files.
Core Crucible	1 Day	In the Core Crucible, students work in teams to analyze and exploit a botnet.
CNO Core Modular Enrollment		\$11,220

WINDOWS USER MODE DEVELOPMENT (20 DAYS)		
Windows Systems Programming	4 Days	The Windows Systems Programming class introduces Windows development tools and the Win32 API.
Windows Internals	4 Days	Windows Internals moves beyond the Win32 API introduced in the previous class to describe the advanced Windows operating system concepts used to implement it.
Windows CNO User Mode Development	5 Days	Building on the material from the preceding classes, the CNO User Mode Development class provides instruction on fundamental techniques and best practices for CNO tool development.
Windows Vulnerability Research and Exploitation	5 Days	Students in the Vulnerability Research and Exploitation class learn how to analyze and exploit vulnerabilities in software.
Windows User Mode Crucible	2 Days	In the User Mode Crucible, students work in teams to analyze and exploit a vulnerable network service.
User Mode Development Modular Enrollment		\$13,200

WINDOWS KERNEL MODE DEVELOPMENT (8 DAYS)		
Windows Kernel Internals	5 Days	The Kernel Internals class expands on the user mode content to introduce students to the Windows Kernel architecture and fundamentals of driver development.
Windows CNO Kernel Mode Development	3 Days	The CNO Kernel Mode Development class builds on the previous class to introduce techniques useful for Windows Kernel CNO.
Kernel Mode Development Enrollment		\$6,600

INSTRUCTORS

Our instructors are members of an elite group of cyber professionals and have been chosen for their technical knowledge, industry experience, and facilitation skills. Instructors are rotated between the classroom and contract positions to ensure their skills are current and operationally relevant.

TRAINING FACILITIES

We have training facilities in Hanover, Maryland, Jessup, Maryland and San Antonio, Texas. Our VTC and Virtual Instructor-Led Training are available as well as on-site training.

CLASS SIZE

Minimum class size is six (6). Two instructors will be provided for class sizes exceeding ten students.

GRADING

Each class features one or more quizzes and a final exam. An average exam score of 80% is a passing grade. Students who complete all 10 graded classes, with an 80% average or better, are recognized as ManTech Certified Advanced Cyber Programmers (CACPs), and receive certification. Students who achieve a 95% or higher receive honors. Students that do not receive a certifying grade will receive certificates of attendance, or graduation

CONTACT INFORMATION

For Commercial Software inquiries and quotes, please contact: Commercial.Services@ManTech.com

For questions or additional information, please contact:

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