Spatial Integrated Systems, Inc.

AUTHORIZED FEDERAL ACQUISITION SERVICE
INFORMATION TECHNOLOGY SCHEDULE PRICELIST
GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY EQUIPMENT, SOFTWARE AND SERVICES

SIS has a long-standing commitment to information technology and supporting the implementation of information systems. Our services including technical management, application engineering, performance improvement, and information systems can be procured under the GSA schedule. SIS stays abreast of the challenges, issues, and opportunities through advancements in information technology. Working with clients, SIS ensures that all goals and objectives are achieved.

Special Item No. 132-33 – Perpetual Software Licenses

FSC CLASS 7030 - INFORMATION TECHNOLOGY SOFTWARE

Special Item No. 132-34 – Maintenance of Software

Special Item No. 132-51 – Information Technology Professional Services

FPDS Code D301	IT Facility Operation and Maintenance
FPDS Code D302	IT Systems Development Services
FPDS Code D306	IT Systems Analysis Services
FPDS Code D307	Automated Information Systems Design and Integration Services
FPDS Code D308	Programming Services
FPDS Code D310	IT Backup and Security Services
FPDS Code D311	IT Data Conversion Services
FPDS Code D313	Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) Services
FPDS Code D316	IT Network Management Services
FPDS Code D317	Creation/Retrieval of IT Related Automated News Services, Data Services, or Other Information Services (All other information services belong under Schedule 76)
FPDS Code D399	Other Information Technology Services, Not Elsewhere Classified

Special Item No. 132-52 – Electronic Commerce Services

FPDS Code D304	Value Added Network Services (VANs)
FPDS Code D304	E-Mail Services
FPDS Code D304	Internet Access Services
FPDS Code D304	Navigation Services
FPDS Code D399	Other Data Transmission Services, Not Elsewhere Classified - Except “Voice” and Pager Services

Spatial Integrated Systems, Inc.
2815 Rouse Road Ext., Kinston, NC 28504
Voice (252) 522 - 1456 Fax (252) 523 - 1803
www.sisinc.org

Contract Number:	**GS-35F-5466H**
Period Covered by Contract:	**February 9, 1998 thru February 8, 2013**
Pricelist current through Modification:	**#P0-0010, dated 27 September 2011**

Products and ordering information in this Authorized FSS Information Technology Schedule Pricelist are also available on the GSA Advantage! System. Agencies can browse GSA Advantage! by accessing the Federal Acquisition Service’s Home Page via the Internet at http://www.fss.gsa.gov/

TABLE OF CONTENTS

INTRODUCTION

Spatial Integrated Systems, Inc. (SIS) is a small business that provides high-end business solutions in:

- Product Lifecycle Management (PLM)
- 3D Imaging & Visualization
- Wireless Asset Management & Secured Mass Storage

SIS professionals have extensive experience in providing engineering and information services to a broad range of government and commercial clients. These professionals have extraordinarily broad backgrounds in multiple technical disciplines, including:

- Research and Development
- Systems Integration
- Reverse Engineering
- Technology Transfer
- Project Management

SIS core competencies and unique capabilities include the ability to offer an integrated set of services and products derived from rapidly growing information systems technologies and resources. SIS solutions include:

- Digital 3D Data Capture Systems
- Automated facility configuration and integrated data environment
- Remote inventory tracking and 3D visualization
- Virtual Reality Training
- Ethernet attached mass storage and security encryption

SIS team is mission-oriented, and will settle for nothing less than the highest standards of service and dedication to our customers.

INFORMATION FOR ORDERING ACTIVITIES APPLICABLE TO ALL SPECIAL ITEM NUMBERS

SPECIAL NOTICE TO AGENCIES: Small Business Participation

SBA strongly supports the participation of small business concerns in the Federal Supply Schedules Program. To enhance Small Business Participation SBA policy allows agencies to include in their procurement base and goals, the dollar value of orders expected to be placed against the Federal Supply Schedules, and to report accomplishments against these goals.

For orders exceeding the micropurchase threshold, FAR 8.404 requires agencies to consider the catalogs/pricelists of at least three schedule contractors or consider reasonably available information by using the GSA Advantage!™ on-line shopping service (www.fss.gsa.gov). The catalogs/pricelists, GSA Advantage!™ and the Federal Supply Service Home Page (www.fss.gsa.gov) contain information on a broad array of products and services offered by small business concerns.

This information should be used as a tool to assist ordering activities in meeting or exceeding established small business goals. It should also be used as a tool to assist in including small, small disadvantaged, and women-owned small businesses among those considered when selecting pricelists for a best value determination.

For orders exceeding the micropurchase threshold, customers are to give preference to small business concerns when two or more items at the same delivered price will satisfy their requirement.

1. Geographic Scope of Contract:

The geographic scope of delivery for this contract is within the 48 contiguous states, Alaska, Hawaii, Puerto Rico, Washington, DC, and U.S. Territories.

2. Contractor's Ordering Address and Payment Information:

Ordering:
Spatial Integrated Systems, Inc.
2815 Rouse Road Extension
Kinston, NC 28504
Phone: 252-522-1456
Fax: 252-523-1803
E-mail: gsainfo@sisinc.org

Payment By Check:
Spatial Integrated Systems, Inc.
2815 Rouse Road Extension
Kinston, NC 28504
Attn: Accounts Receivable

Payment By EFT:
Bank Routing Number - 056004445
Account Number – 0069634301
United Bank

Government purchase cards acceptable for payments equal to or less than the micro-purchase threshold for oral or written delivery orders. Credit cards will not be acceptable for payment above the micro-purchase threshold. In addition, bank account information for wire transfer payments will be shown on the invoice.

The following telephone number(s) can be used by ordering activities to obtain technical and/or ordering assistance:

(252) 522-1456

3. LIABILITY FOR INJURY OR DAMAGE:

The Contractor shall not be liable for any injury to ordering activity personnel or damage to ordering activity property arising from the use of equipment maintained by the Contractor, unless such injury or damage is due to the fault or negligence of the Contractor.

4. Statistical Data for Government Ordering Office Completion of Standard Form 279:

Block 9: G. Order/Modification Under Federal Schedule
Block 16: Data Universal Numbering System (DUNS) Number: 17-607-3633
Block 30: Type of Contractor - B. Other Small Business

- A. Small Disadvantaged Business
- B. Other Small Business
- C. Large Business
- G. Other Nonprofit Organization
- L. Foreign Contractor

Block 31: Woman-Owned Small Business – No
Block 36: Contractor's Taxpayer Identification Number (TIN): 31-1508233

4a. CAGE Code**:** 1BLA0
4b. Contractor has registered with the Central Contractor Registration Database.

5. FOB Destination:

6. DELIVERY SCHEDULE:

a. TIME OF DELIVERY: The Contractor shall deliver to destination within the number of calendar days after receipt of order (ARO), as set forth below:

SPECIAL ITEM NUMBER	DELIVERY TIME (Days ARO)
132.33	30 Days
132.34	30 Days

b. URGENT REQUIREMENTS: When the Federal Supply Schedule contract delivery period does not meet the bona fide urgent delivery requirements of an ordering activity, ordering activities are encouraged, if time permits, to contact the Contractor for the purpose of obtaining accelerated delivery. The Contractor shall reply to the inquiry within 3 workdays after receipt. (Telephonic replies shall be confirmed by the Contractor in writing.) If the Contractor offers an accelerated delivery time acceptable to the ordering activity, any order(s) placed pursuant to the agreed upon accelerated delivery time frame shall be delivered within this shorter delivery time and in accordance with all other terms and conditions of the contract.

7. Discounts: Prices shown are NET Prices; Basic Discounts have been deducted.

a. Prompt Payment: 0% - 30 days from receipt of invoice or date of acceptance, whichever is later.
b. Quantity
c. Dollar Volume
d. Government Educational Institutions are offered the same discounts as all other Government Customers.
e. Other

8. Trade Agreements Act of 1979, as amended:

All items are U.S. made end products, designated country end products, Caribbean Basin country end products, Canadian end products, or Mexican end products as defined in the Trade Agreements Act of 1979, as amended.

9. Statement Concerning Availability of Export Packing:

10. Small Requirements: The minimum dollar value of orders to be issued is $500.00

11. Maximum Order: (All dollar amounts are exclusive of any discount for prompt payment.)

a. The Maximum Order value for the following Special Item Numbers (SINs) is $500,000.00:
Special Item Number 132-33 - Perpetual Software Licenses
Special Item Number 132-34 – Maintenance of Software
Special Item Number 132-51 – Information Technology (IT) Professional Services
Special Item Number 132-52 – Electronic Commerce (EC) Services

12. USE OF FEDERAL SUPPLY SERVICE INFORMATION TECHNOLOGY SCHEDULE CONTRACTS.

In accordance with FAR 8.404:

[NOTE: Special ordering procedures have been established for Special Item Numbers (SINs) 132-51 IT Professional Services and 132-52 EC Services; refer to the terms and conditions for those SINs.]

Orders placed pursuant to a Multiple Award Schedule (MAS), using the procedures in FAR 8.404, are considered to be issued pursuant to full and open competition. Therefore, when placing orders under Federal Supply Schedules, ordering activities need not seek further competition, synopsize the requirement, make a separate determination of fair and reasonable pricing, or consider small business set-asides in accordance with subpart 19.5. GSA has already determined the prices of items under schedule contracts to be fair and reasonable. By placing an order against a schedule using the procedures outlined below, the ordering activity has concluded that the order represents the best value and results in the lowest overall cost alternative (considering price, special features, administrative costs, etc.) to meet the ordering activity's needs.

a. **Orders placed at or below the micro-purchase threshold.** Ordering activities can place orders at or below the micro-purchase threshold with any Federal Supply Schedule Contractor.

b. **Orders exceeding the micro-purchase threshold but not exceeding the maximum order threshold**. Orders should be placed with the Schedule Contractor that can provide the supply or service that represents the best value. Before placing an order, ordering activities should consider reasonably available information about the supply or service offered under MAS contracts by using the "GSA Advantage!" on-line shopping service, or by reviewing the catalogs/pricelists of at least three Schedule Contractors and selecting the delivery and other options available under the schedule that meets the ordering activity's needs. In selecting the supply or service representing the best value, the ordering activity may consider--
   (1) Special features of the supply or service that are required in effective program performance and that are not provided by a comparable supply or service;
   (2) Trade-in considerations;
   (3) Probable life of the item selected as compared with that of a comparable item;
   (4) Warranty considerations;
   (5) Maintenance availability;
   (6) Past performance; and
   (7) Environmental and energy efficiency considerations.

c. **Orders exceeding the maximum order threshold.** Each schedule contract has an established maximum order threshold. This threshold represents the point where it is advantageous for the ordering activity to seek a price reduction. In addition to following the procedures in paragraph b, above, and before placing an order that exceeds the maximum order threshold, ordering activities shall--
   Review additional Schedule Contractors'
   (1) catalogs/pricelists or use the "GSA Advantage!" on-line shopping service;
   (2) Based upon the initial evaluation, generally seek price reductions from the Schedule Contractor(s) appearing to provide the best value (considering price and other factors); and
   (3) After price reductions have been sought, place the order with the Schedule Contractor that provides the best value and results in the lowest overall cost alternative. If further price reductions are not offered, an order may still be placed, if the ordering activity determines that it is appropriate.

NOTE: For orders exceeding the maximum order threshold, the Contractor may:

(1) Offer a new lower price for this requirement (the Price Reductions clause is not applicable to orders placed over the maximum order in FAR 52.216-19 Order Limitations);

(2) Offer the lowest price available under the contract; or

(3) Decline the order (orders must be returned in accordance with FAR 52.216-19).

d. **Blanket purchase agreements (BPAs).** The establishment of Federal Supply Schedule BPAs is permitted when following the ordering procedures in FAR 8.404. All schedule contracts contain BPA provisions. ordering activities may use BPAs to establish accounts with Contractors to fill recurring requirements. BPAs should address the frequency of ordering and invoicing, discounts, and delivery locations and times.

e. **Price reductions**. In addition to the circumstances outlined in paragraph c, above, there may be instances when ordering activities will find it advantageous to request a price reduction. For example, when the ordering activity finds a schedule supply or service elsewhere at a lower price or when a BPA is being established to fill recurring requirements, requesting a price reduction could be advantageous. The potential volume of orders under these agreements, regardless of the size of the individual order, may offer the ordering activity the opportunity to secure greater discounts. Schedule Contractors are not required to pass on to all schedule users a price reduction extended only to an individual ordering activity for a specific order.

f. **Small business.** For orders exceeding the micro-purchase threshold, ordering activities should give preference to the items of small business concerns when two or more items at the same delivered price will satisfy the requirement.

g. **Documentation**. Orders should be documented, at a minimum, by identifying the Contractor the item was purchased from, the item purchased, and the amount paid. If an ordering activity requirement, in excess of the micro-purchase threshold, is defined so as to require a particular brand name, product, or feature of a product peculiar to one manufacturer, thereby precluding consideration of a product manufactured by another company, the ordering activity shall include an explanation in the file as to why the particular brand name, product, or feature is essential to satisfy the ordering activity's needs.

13. FEDERAL INFORMATION TECHNOLOGY/TELECOMMUNICATION STANDARDS REQUIREMENTS:

ordering activities acquiring products from this Schedule must comply with the provisions of the Federal Standards Program, as appropriate (reference: NIST Federal Standards Index). Inquiries to determine whether or not specific products listed herein comply with Federal Information Processing Standards (FIPS) or Federal Telecommunication Standards (FED-STDS), which are cited by ordering activities, shall be responded to promptly by the Contractor.

13.1 FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATIONS (FIPS PUBS):

Information Technology products under this Schedule that do not conform to Federal Information Processing Standards (FIPS) should not be acquired unless a waiver has been granted in accordance with the applicable "FIPS Publication." Federal Information Processing Standards Publications (FIPS PUBS) are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Information concerning their availability and applicability should be obtained from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia 22161. FIPS PUBS include voluntary standards when these are adopted for Federal use. Individual orders for FIPS PUBS should be referred to the NTIS Sales Office, and orders for subscription service should be referred to the NTIS Subscription Officer, both at the above address, or telephone number (703) 487-4650.

13.2 FEDERAL TELECOMMUNICATION STANDARDS (FED-STDS):

Telecommunication products under this Schedule that do not conform to Federal Telecommunication Standards (FED-STDS) should not be acquired unless a waiver has been granted in accordance with the applicable "FED-STD." Federal Telecommunication Standards are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Ordering information and information concerning the availability of FED-STDS should be obtained from the GSA, Federal Supply Service, Specification Section, 470 East L'Enfant Plaza, Suite 8100, SW, Washington, DC 20407, telephone number (202)619-8925. Please include a self-addressed mailing label when requesting information by mail. Information concerning their applicability can be obtained by writing or calling the U.S. Department of Commerce, National Institute of Standards and Technology, Gaithersburg, MD 20899, telephone number (301)975-2833.

14. CONTRACTOR TASKS / SPECIAL REQUIREMENTS (C-FSS-370) (NOV 2001)

(a) Security Clearances: The Contractor may be required to obtain/possess varying levels of security clearances in the performance of orders issued under this contract. All costs associated with obtaining/possessing such security clearances should be factored into the price offered under the Multiple Award Schedule.

(b) Travel: The Contractor may be required to travel in performance of orders issued under this contract. Allowable travel and per diem charges are governed by Pub .L. 99-234 and FAR Part 31, and are reimbursable by the ordering agency or can be priced as a fixed price item on orders placed under the Multiple Award Schedule. The Industrial Funding Fee does NOT apply to travel and per diem charges.

(c) Certifications, Licenses and Accreditations: As a commercial practice, the Contractor may be required to obtain/possess any variety of certifications, licenses and accreditations for specific FSC/service code classifications offered. All costs associated with obtaining/ possessing such certifications, licenses and accreditations should be factored into the price offered under the Multiple Award Schedule program.

(d) Insurance: As a commercial practice, the Contractor may be required to obtain/possess insurance coverage for specific FSC/service code classifications offered. All costs associated with obtaining/possessing such insurance should be factored into the price offered under the Multiple Award Schedule program.

(e) Personnel: The Contractor may be required to provide key personnel, resumes or skill category descriptions in the performance of orders issued under this contract. Ordering activities may require agency approval of additions or replacements to key personnel.

(f) Organizational Conflicts of Interest: Where there may be an organizational conflict of interest as determined by the ordering agency, the Contractor's participation in such order may be restricted in accordance with FAR Part 9.5.

(g) Documentation/Standards: The Contractor may be requested to provide products or services in accordance with rules, regulations, OMB orders, standards and documentation as specified by the agency's order.

(h) Data/Deliverable Requirements: Any required data/deliverables at the ordering level will be as specified or negotiated in the agency's order.

(i) Government-Furnished Property: As specified by the agency's order, the Government may provide property, equipment, materials or resources as necessary.

(j) Availability of Funds: Many Government agencies' operating funds are appropriated for a specific fiscal year. Funds may not be presently available for any orders placed under the contract or any option year. The Government's obligation on orders placed under this contract is contingent upon the availability of appropriated funds from which payment for ordering purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are available to the ordering Contracting Officer.

15. CONTRACT ADMINISTRATION FOR ORDERING ACTIVITIES: Any ordering activity, with respect to any one or more delivery orders placed by it under this contract, may exercise the same rights of termination as might the GSA Contracting Officer under provisions of FAR 52.212-4, paragraphs (l) Termination for the ordering activity's convenience, and (m) Termination for Cause (See C.1.)

16. GSA Advantage!

GSA Advantage! is an on-line, interactive electronic information and ordering system that provides on-line access to vendors' schedule prices with ordering information. GSA Advantage! will allow the user to perform various searches across all contracts including, but not limited to:

(1) Manufacturer;
(2) Manufacturer's Part Number; and
(3) Product categories.

Agencies can browse GSA Advantage! by accessing the Internet World Wide Web utilizing a browser (ex.: NetScape). The Internet address is http://www.fss.gsa.gov/.

17. PURCHASE OF OPEN MARKET ITEMS

NOTE: Open Market Items are also known as incidental items, noncontract items, non-Schedule items, and items not on a Federal Supply Schedule contract. ODCs (Other Direct Costs) are not part of this contract and should be treated at open market purchases. Ordering Activities procuring open market items must follow FAR 8.401(d).

For administrative convenience, an ordering activity contracting officer may add items not on the Federal Supply Multiple Award Schedule (MAS) -- referred to as open market items -- to a Federal Supply Schedule blanket purchase agreement (BPA) or an individual task or delivery order, **only if**-

(1) All applicable acquisition regulations pertaining to the purchase of the items not on the Federal Supply Schedule have been followed (e.g., publicizing (Part 5), competition requirements (Part 6), acquisition of commercial items (Part 12), contracting methods (Parts 13, 14, and 15), and small business programs (Part 19));
(2) The ordering activity contracting officer has determined the price for the items not on the Federal Supply Schedule is fair and reasonable;
(3) The items are clearly labeled on the order as items not on the Federal Supply Schedule; and
(4) All clauses applicable to items not on the Federal Supply Schedule are included in the order.

18. CONTRACTOR COMMITMENTS, WARRANTIES AND REPRESENTATIONS

a. For the purpose of this contract, commitments, warranties and representations include, in addition to those agreed to for the entire schedule contract:
   1. Time of delivery/installation quotations for individual orders;
   2. Technical representations and/or warranties of products concerning performance, total system performance and/or configuration, physical, design and/or functional characteristics and capabilities of a product/equipment/ service/software package submitted in response to requirements which result in orders under this schedule contract.
   3. Any representations and/or warranties concerning the products made in any literature, description, drawings and/or specifications furnished by the Contractor.

b. The above is not intended to encompass items not currently covered by the GSA Schedule contract.

19. OVERSEAS ACTIVITIES

The terms and conditions of this contract shall apply to all orders for installation, maintenance and repair of equipment in areas listed in the pricelist outside the 48 contiguous states and the District of Columbia, except as indicated below:

Not Applicable

Upon request of the Contractor, the ordering activity may provide the Contractor with logistics support, as available, in accordance with all applicable ordering activity regulations. Such ordering activity support will be provided on a reimbursable basis, and will only be provided to the Contractor's technical personnel whose services are exclusively required for the fulfillment of the terms and conditions of this contract.

20. BLANKET PURCHASE AGREEMENTS (BPAs)

Federal Acquisition Regulation (FAR) 13.303-1(a) defines Blanket Purchase Agreements (BPAs) as "…a simplified method of filling anticipated repetitive needs for supplies or services by establishing 'charge accounts' with qualified sources of supply." The use of Blanket Purchase Agreements under the Federal Supply Schedule Program is authorized in accordance with FAR 13.303-2(c)(3), which reads, in part, as follows:

"BPAs may be established with Federal Supply Schedule Contractors, if not inconsistent with the terms of the applicable schedule contract."

Federal Supply Schedule contracts contain BPA provisions to enable schedule users to maximize their administrative and purchasing savings. This feature permits schedule users to set up "accounts" with Schedule Contractors to fill recurring requirements. These accounts establish a period for the BPA and generally address issues such as the frequency of ordering and invoicing, authorized callers, discounts, delivery locations and times. Agencies may qualify for the best quantity/volume discounts available under the contract, based on the potential volume of business that may be generated through such an agreement, regardless of the size of the individual orders. In addition, agencies may be able to secure a discount higher than that available in the contract based on the aggregate volume of business possible under a BPA. Finally, Contractors may be open to a progressive type of discounting where the discount would increase once the sales accumulated under the BPA reach certain prescribed levels. Use of a BPA may be particularly useful with the new Maximum Order feature. See the Suggested Format, contained in this Schedule Pricelist, for customers to consider when using this purchasing tool.

21. CONTRACTOR TEAM ARRANGEMENTS

Contractors participating in contractor team arrangements must abide by all terms and conditions of their respective contracts. This includes compliance with Clauses 552.238-74, Industrial Funding Fee and Sales Reporting, i.e., each contractor (team member) must report sales and remit the IFF for all products and services provided under its individual contract.

22. INSTALLATION, DEINSTALLATION, REINSTALLATION

The Davis-Bacon Act (40 U.S.C. 276a-276a-7) provides that contracts in excess of $2,000 to which the United States or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the United States, shall contain a clause that no laborer or mechanic employed directly upon the site of the work shall received less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration or repair is segregable and exceeds $2,000, then the requirements of the Davis-Bacon Act applies.

The ordering activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8.

23. SECTION 508 COMPLIANCE

If applicable, Section 508 compliance information on the supplies and services in this contract are available in Electronic and Information Technology (EIT) at the following:

www.Section508.gov

The EIT standard can be found at: www.Section508.gov/.

24. PRIME CONTRACTOR ORDERING FROM FEDERAL SUPPLY SCHEDULES

Prime Contractors (on cost reimbursement contracts) placing orders under Federal Supply Schedules, on behalf of an ordering activity, shall follow the terms of the applicable schedule and authorization and include with each order –

(a) A copy of the authorization from the ordering activity with whom the contractor has the prime contract (unless a copy was previously furnished to the Federal Supply Schedule contractor); and

(b) The following statement:

This order is placed under written authorization from _____ dated _____. In the event of any inconsistency between the terms and conditions of this order and those of your Federal Supply Schedule contract, the latter will govern.

25. INSURANCE—WORK ON A GOVERNMENT INSTALLATION (JAN 1997)(FAR 52.228-5)

(a) The Contractor shall, at its own expense, provide and maintain during the entire performance of this contract, at least the kinds and minimum amounts of insurance required in the Schedule or elsewhere in the contract.

(b) Before commencing work under this contract, the Contractor shall notify the Contracting Officer in writing that the required insurance has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective—

(1) For such period as the laws of the State in which this contract is to be performed prescribe; or

(2) Until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.

(c) The Contractor shall insert the substance of this clause, including this paragraph (c), in subcontracts under this contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required in the Schedule or elsewhere in the contract. The Contractor shall maintain a copy of all subcontractors' proofs of required insurance, and shall make copies available to the Contracting Officer upon request.

TERMS AND CONDITIONS APPLICABLE TO TERM SOFTWARE LICENSES (SPECIAL ITEM NUMBER 132-32), PERPETUAL SOFTWARE LICENSES (SPECIAL ITEM NUMBER 132-33) AND MAINTENANCE (SPECIAL ITEM NUMBER 132-34) OF GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY SOFTWARE

1. INSPECTION/ACCEPTANCE

The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The ordering activity reserves the right to inspect or test any software that has been tendered for acceptance. The ordering activity may require repair or replacement of nonconforming software at no increase in contract price. The ordering activity must exercise its post acceptance rights (1) within a reasonable time after the defect was discovered or should have been discovered; (2) before any substantial change occurs in the condition of the software, unless the change is due to the defect in the software, and (3) before the end of the warranty period.

2. GUARANTEE/WARRANTY

a. Unless specified otherwise in this contract, the Contractor's standard commercial guarantee/warranty as stated in the contract's commercial pricelist will apply to this contract.

The following is Contractor's standard commercial warranty:

Contractor warrants that for a period of 90 days following the date of shipment to Customer (the "Warranty Period") the Software will conform substantially to its associated documentation. Customer's sole and exclusive liability, and Customer's sole and exclusive remedy, for a breach of this warranty will be that the Contractor will provide Software Corrections. However, if CONTRACTOR is unable to provide Software Corrections, as Customer's sole and exclusive remedy, CONTRACTOR will grant Customer a credit or refund, at Customer's option, for the Software involved and accept its return a credit or refund, at Customer's option.

Customer acknowledges and agrees that Software performance and response times are a function of Customer applications requirements and will be affected by, among other factors, the mix of concurrently running applications, any networking capability utilized by Customer on Customer's system and the amount of memory thereon. CONTRACTOR does not warrant that the Software will operate in conjunction with equipment, software or services that may be obtained by Customer outside this Agreement.

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, CONTRACTOR AND ITS THIRD PARTY SUPPLIERS MAKE NO WARRANTIES OF ANY KIND, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FOR ANY PARTICULAR PURPOSE WITH RESPECT TO THE SOFTWARE OR SERVICES PROVIDED UNDER AND PURSUANT TO THIS AGREEMENT.

3. TECHNICAL SERVICES

During the Warranty Period, the Contractor, without additional charge to the ordering activity, shall provide a hot line technical support number _____ for the purpose of providing user assistance and guidance in the implementation of the software. The technical support number is available from 8:00am to 5 pm local time, Monday through Friday except for holidays.

Provide telephone number and hours of operation for technical support hot line; indicate applicable time zone for the hours of operation—i.e., Eastern time, Central time, Mountain time or Pacific time.(Information will be provided with each order)

4. SOFTWARE MAINTENANCE

a. Software maintenance service shall include the following:

(1) Software Maintenance. CONTRACTOR will maintain the Software, or cause it to be maintained, during the Warranty Period. Thereafter, CONTRACTOR will maintain the Software, or cause it to be maintained, for renewal maintenance terms of one, three, six or twelve months each as elected by Customer (by initialing in the space provided below), until terminated by either party with at least 60 days written notice prior to the expiration of

the then current maintenance term. Software maintenance will consist of updates to the Software which contain (i) correction of Errors (defined below) remedied by CONTRACTOR, (ii) new point releases denoted by a change to the right of the first decimal point (e.g. V18.0 to V18.1), and (iii) new major releases denoted by a change to the left of the first decimal point (e.g. V18.0 to V19.0); provided; however, that Software maintenance does not include any release, module, option, future product, or any upgrade in functionality or performance of the Software which CONTRACTOR develops as a customization product for a single customer or CONTRACTOR licenses separately or offers only for an additional fee. Customer is responsible for the installation and implementation of any update and required data conversion. Six months after shipment of any new update, maintenance of the previous release will cease. Customer will consult with CONTRACTOR prior to installation of any software received directly from an equipment manufacturer or attachments, accessories, features, devices or additional equipment added by Customer to determine compatibility with the Software.

(2) Error Reporting Procedure. Customer may report to CONTRACTOR any suspected failure of the Software to conform substantially to its associated documentation (an "Error"). Upon CONTRACTOR' request, Customer will provide CONTRACTOR in writing a detailed description and documentation of the suspected Error. CONTRACTOR will investigate the facts and circumstances related thereto and Customer will cooperate fully with CONTRACTOR' investigation. If CONTRACTOR finds that the Software contains an Error, CONTRACTOR will use its reasonable efforts to correct the Error or provide a "work-around" solution (a "Software Correction"), at CONTRACTOR' discretion. CONTRACTOR may provide Customer a copy of the corrected Software (or of the affected portions) in conjunction with the distribution of a Software update.

(3) Telephone Support. CONTRACTOR will accept Customer maintenance calls by telephone between the hours of 8:00a.m. and 5:00p.m. in local time zones of the contiguous United States, Monday through Friday, except on holidays recognized by CONTRACTOR.

(4) Limitation of Remedies. CONTRACTOR' sole and exclusive liability, and Customer's sole and exclusive remedy, for a failure to provide Software Corrections in accordance with Section 2 will be that Customer may terminate Software maintenance for the Software involved. CONTRACTOR will thereafter promptly refund fees paid for maintenance of the Software so terminated during the then current term of the Software maintenance services for the applicable Software.

b. Invoices for maintenance service shall be submitted by the Contractor on a quarterly or monthly basis, after the completion of such period. Maintenance charges must be paid in arrears (31 U.S.C. 3324). PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.

5. UTILIZATION LIMITATIONS - (132-32, 132-33, AND 132-34) Object Code Only

a. Software acquisition is limited to commercial computer software defined in FAR Part 2.101.

b. When acquired by the ordering activity, commercial computer software and related documentation so legend shall be subject to the following:

(1) Title to and ownership of the software and documentation shall remain with the Contractor, unless otherwise specified.

(2) The ordering activity shall not provide or otherwise make available the software or documentation, or any portion thereof, in any form, to any third party without the prior written approval of the Contractor. Third parties do not include prime Contractors, subcontractors and agents of the ordering activity who have the ordering activity's permission to use the licensed software and documentation at the ordering activity's facility, and who have agreed to use the licensed software and documentation only in accordance with these restrictions. This provision does not limit the right of the ordering activity to use software, documentation, or information therein, which the ordering activity may already have or obtains without restrictions.

(3) Each Named User within the ordering activity shall have the right to use the computer software and documentation or in cases of disaster recovery, the ordering activity has the right to transfer the software to another site if the ordering activity site for which it is acquired is deemed to be unsafe for ordering activity personnel (Ordering Activity will have to amend the established list of Named Users); to use the computer software and documentation with a backup computer when the primary computer is inoperative; to copy computer programs for safekeeping (archives) or backup purposes; to transfer a copy of the software to

another site for purposes of benchmarking new hardware and/or software

(4) "Commercial Computer Software" may be marked with the Contractor's standard commercial restricted rights legend, but the schedule contract and schedule pricelist, including this clause, "Utilization Limitations" are the only governing terms and conditions, and shall take precedence and supersede any different or additional terms and conditions included in the standard commercial legend.

6. SOFTWARE CONVERSIONS - (132-32 AND 132-33)

Full monetary credit will be allowed to the ordering activity when conversion from one version of the software to another is made as the result of a change in operating system , or from one computer system to another. Under a perpetual license (132-33), the purchase price of the new software shall be reduced by the amount that was paid to purchase the earlier version. Under a term license (132-32), conversion credits which accrued while the earlier version was under a term license shall carry forward and remain available as conversion credits which may be applied towards the perpetual license price of the new version.

7. DESCRIPTIONS AND EQUIPMENT COMPATIBILITY

The Contractor shall include, in the schedule pricelist, a complete description of each software product and a list of equipment on which the software can be used. Also, included shall be a brief, introductory explanation of the modules and documentation which are offered.

8. RIGHT-TO-COPY PRICING IS NOT OFFERED

TERMS AND CONDITIONS APPLICABLE TO INFORMATION TECHNOLOGY (IT) PROFESSIONAL SERVICES (SPECIAL ITEM NUMBER 132-51) AND ELECTRONIC COMMERCE (EC) SERVICES (SPECIAL ITEM NUMBER 132-52)

1. SCOPE

a. The prices, terms and conditions stated under Special Item Number 132-51 Information Technology Professional Services and Special Item Number 132-52 Electronic Commerce Services apply exclusively to IT/EC Services within the scope of this Information Technology Schedule.

b. The Contractor shall provide services at the Contractor's facility and/or at the ordering activity location, as agreed to by the Contractor and the ordering activity.

2. PERFORMANCE INCENTIVES

a. Performance incentives may be agreed upon between the Contractor and the ordering activity on individual fixed price orders or Blanket Purchase Agreements under this contract in accordance with this clause.

b. The ordering activity must establish a maximum performance incentive price for these services and/or total solutions on individual orders or Blanket Purchase Agreements.

c. Incentives should be designed to relate results achieved by the contractor to specified targets. To the maximum extent practicable, ordering activities shall consider establishing incentives where performance is critical to the ordering activity's mission and incentives are likely to motivate the contractor. Incentives shall be based on objectively measurable tasks.

d. The above procedures do not apply to Time and Material or labor hour orders.

3. ORDERING PROCEDURES FOR SERVICES (REQUIRING A STATEMENT OF WORK)

(G-FCI-920) (MAR 2003)

FAR 8.402 contemplates that GSA may occasionally find it necessary to establish special ordering procedures for individual Federal Supply Schedules or for some Special Item Numbers (SINs) within a Schedule. GSA has established special ordering procedures for services that require a Statement of Work. These special ordering procedures take precedence over the procedures in FAR 8.404 (b)(2) through (b)(3).

When ordering services over $100,000, Department of Defense (DOD) ordering offices and non-DOD agencies placing orders on behalf of the DOD must follow the policies and procedures in the Defense Federal Acquisition Regulation Supplement (DFARS) 208.404-70 – Additional ordering procedures for services. When DFARS 208.404-70 is applicable and there is a conflict between the ordering procedures contained in this clause and the additional ordering procedures for services in DFARS 208.404-70, the DFARS procedures take precedence.

GSA has determined that the prices for services contained in the contractor's price list applicable to this Schedule are fair and reasonable. However, the ordering activity using this contract is responsible for considering the level of effort and mix of labor proposed to perform a specific task being ordered and for making a determination that the total firm-fixed price or ceiling price is fair and reasonable.

(a) When ordering services, ordering activities shall—

(1) Prepare a Request (Request for Quote or other communication tool):

(i) A statement of work (a performance-based statement of work is preferred) that outlines, at a minimum, the work to be performed, location of work, period of performance, deliverable schedule, applicable standards, acceptance criteria, and any special requirements (i.e., security clearances, travel, special knowledge, etc.) should be prepared.

(ii) The request should include the statement of work and request the contractors to submit either a firm-fixed price or a ceiling price to provide the services outlined in the statement of work. A firm-fixed price order shall be requested, unless the ordering activity makes a determination that it is not possible at the time of placing the order to estimate accurately the extent or duration of the work or to anticipate cost with any reasonable degree of confidence. When such a determination is made, a labor hour or time-and-materials proposal may be requested. The firm-fixed price shall be based on the rates in the schedule contract and shall consider the mix of labor categories and level of effort required to perform the services described in the statement of work. The firm-fixed price of the order should also include any travel costs or other incidental

costs related to performance of the services ordered, unless the order provides for reimbursement of travel costs at the rates provided in the Federal Travel or Joint Travel Regulations. A ceiling price must be established for labor-hour and time-and-materials orders.

(iii) The request may ask the contractors, if necessary or appropriate, to submit a project plan for performing the task, and information on the contractor's experience and/or past performance performing similar tasks.

(iv) The request shall notify the contractors what basis will be used for selecting the contractor to receive the order. The notice shall include the basis for determining whether the contractors are technically qualified and provide an explanation regarding the intended use of any experience and/or past performance information in determining technical qualification of responses. If consideration will be limited to schedule contractors who are small business concerns as permitted by paragraph (2) below, the request shall notify the contractors that will be the case.

(2) Transmit the Request to Contractors:

Based upon an initial evaluation of catalogs and price lists, the ordering activity should identify the contractors that appear to offer the best value (considering the scope of services offered, pricing and other factors such as contractors' locations, as appropriate) and transmit the request as follows:

NOTE: When buying IT professional services under SIN 132—51 ONLY, the ordering office, at its discretion, may limit consideration to those schedule contractors that are small business concerns. This limitation is not applicable when buying supplies and/or services under other SINs as well as SIN 132-51. The limitation may only be used when at least three (3) small businesses that appear to offer services that will meet the agency's needs are available, if the order is estimated to exceed the micro-purchase threshold.

(i) The request should be provided to at least three (3) contractors if the proposed order is estimated to exceed the micro-purchase threshold, but not exceed the maximum order threshold.

(ii) For proposed orders exceeding the maximum order threshold, the request should be provided to additional contractors that offer services that will meet the ordering activity's needs.

(iii) In addition, the request shall be provided to any contractor who specifically requests a copy of the request for the proposed order.

(iv) Ordering activities should strive to minimize the contractors' costs associated with responding to requests for quotes for specific orders. Requests should be tailored to the minimum level necessary for adequate evaluation and selection for order placement. Oral presentations should be considered, when possible.

(3) Evaluate Responses and Select the Contractor to Receive the Order:

After responses have been evaluated against the factors identified in the request, the order should be placed with the schedule contractor that represents the best value. (See FAR 8.404)

(b) The establishment of Federal Supply Schedule Blanket Purchase Agreements (BPAs) for recurring services is permitted when the procedures outlined herein are followed. All BPAs for services must define the services that may be ordered under the BPA, along with delivery or performance time frames, billing procedures, etc. The potential volume of orders under BPAs, regardless of the size of individual orders, may offer the ordering activity the opportunity to secure volume discounts. When establishing BPAs, ordering activities shall—

(1) Inform contractors in the request (based on the ordering activity's requirement) if a single BPA or multiple BPAs will be established, and indicate the basis that will be used for selecting the contractors to be awarded the BPAs.

(i) SINGLE BPA: Generally, a single BPA should be established when the ordering activity can define the tasks to be ordered under the BPA and establish a firm-fixed price or ceiling price for individual tasks or services to be ordered. When this occurs, authorized users may place the order directly under the established BPA when the need for service arises. The schedule contractor that represents the best value should be awarded the BPA. (See FAR 8.404)

(ii) MULTIPLE BPAs: When the ordering activity determines multiple BPAs are needed to meet its requirements, the ordering activity should determine which contractors can meet any technical qualifications before establishing the BPAs. When establishing the BPAs, the procedures in (a)(2) above must be followed. The procedures at (a)(2) do not apply to orders issued under multiple BPAs. Authorized users must transmit the request for quote for an order to all BPA holders and then place the order with the Schedule contractor that represents the best value.

(2) Review BPAs Periodically: Such reviews shall be conducted at least annually. The purpose of the review is to determine whether the BPA still represents the best value. (See FAR 8.404)

(c) The ordering activity should give preference to small business concerns when two or more contractors can provide the services at the same firm-fixed price or ceiling price.

(d) When the ordering activity's requirement involves both products as well as executive, administrative and/or professional, services, the ordering activity should total the prices for the products and the firm-fixed price for the services and select the contractor that represents the best value. (See FAR 8.404)

(e) The ordering activity, at a minimum, should document orders by identifying the contractor from which the services were purchased, the services purchased, and the amount paid. If other than a firm-fixed price order is placed, such documentation should include the basis for the determination to use a labor-hour or time-and-materials order. For ordering activity requirements in excess of the micro-purchase threshold, the order file should document the evaluation of Schedule contractors' quotes that formed the basis for the selection of the contractor that received the order and the rationale for any trade-offs made in making the selection.

4. ORDER

a. Agencies may use written orders, EDI orders, blanket purchase agreements, individual purchase orders, or task orders for ordering services under this contract. Blanket Purchase Agreements shall not extend beyond the end of the contract period; all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks which extend beyond the fiscal year for which funds are available shall include FAR 52.232-19 (Deviation – May 2003) Availability of Funds for the Next Fiscal Year. The purchase order shall specify the availability of funds and the period for which funds are available.

b. All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.

5. PERFORMANCE OF SERVICES

a. The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering activity.

b. The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering activity.

c. The ordering activity should include the criteria for satisfactory completion for each task in the Statement of Work or Delivery Order. Services shall be completed in a good and workmanlike manner.

d. Any Contractor travel required in the performance of IT/EC Services must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

6. STOP-WORK ORDER (FAR 52.242-15) (AUG 1989)

(a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either-

(1) Cancel the stop-work order; or

(2) Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.

(b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if-

(1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and

(2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.

(c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.

(d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

7. INSPECTION OF SERVICES

The Inspection of Services–Fixed Price (AUG 1996) (Deviation – May 2003) clause at FAR 52.246-4 applies to firm-fixed price orders placed under this contract. The Inspection–Time-and-Materials and Labor-Hour (JAN 1986) (Deviation – May 2003) clause at FAR 52.246-6 applies to time-and-materials and labor-hour orders placed under this contract.

8. RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character. If the end product of a task order is software, then FAR 52.227-14 (Deviation – May 2003) Rights in Data – General, may apply.

9. RESPONSIBILITIES OF THE ORDERING ACTIVITY

Subject to security regulations, the ordering activity shall permit Contractor access to all facilities necessary to perform the requisite IT/EC Services.

10. INDEPENDENT CONTRACTOR

All IT/EC Services performed by the Contractor under the terms of this contract shall be as an independent Contractor, and not as an agent or employee of the ordering activity.

11. ORGANIZATIONAL CONFLICTS OF INTEREST

a. Definitions.

"Contractor" means the person, firm, unincorporated association, joint venture, partnership, or corporation that is a party to this contract.

"Contractor and its affiliates" and "Contractor or its affiliates" refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.

An "Organizational conflict of interest" exists when the nature of the work to be performed under a proposed ordering activity contract, without some restriction on ordering activities by the Contractor and its affiliates, may either (i) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor's or its affiliates' objectivity in performing contract work.

b. To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the ordering activity, ordering activities may place restrictions on the Contractors, its affiliates, chief executives, directors, subsidiaries and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations, which may require restrictions, are provided at FAR 9.508.

12. INVOICES

The Contractor, upon completion of the work ordered, shall submit invoices for IT/EC services. Progress payments may be authorized by the ordering activity on individual orders if appropriate. Progress payments shall be based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

13. PAYMENTS

For firm-fixed price orders the ordering activity shall pay the Contractor, upon submission of proper invoices or vouchers, the prices stipulated in this contract for service rendered and accepted. Progress payments shall be made only when authorized by the order. For time-and-materials orders, the Payments under Time-and-Materials and Labor-Hour Contracts at FAR 52.232-7 (DEC 2002), (Alternate II – Feb 2002) (Deviation – May 2003) applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts at FAR 52.232-7 (DEC 2002), (Alternate II – Feb 2002) (Deviation – May 2003)) applies to labor-hour orders placed under this contract.

14. RESUMES

Resumes shall be provided to the GSA Contracting Officer or the user ordering activity upon request.

15. INCIDENTAL SUPPORT COSTS

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering activity in accordance with the guidelines set forth in the FAR.

16. APPROVAL OF SUBCONTRACTS

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

17. DESCRIPTION OF IT/EC SERVICES AND PRICING

a. The Contractor shall provide a description of each type of IT/EC Service offered under Special Item Numbers 132-51 and 132-52. IT/EC Services should be presented in the same manner as the Contractor sells to its commercial and other ordering activity customers. If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles (labor categories) for those individuals who will perform the service should be provided.

b. Pricing for all IT/EC Services shall be in accordance with the Contractor's customary commercial practices; e.g., hourly rates, monthly rates, term rates, and/or fixed prices.

The following is an example of the manner in which the description of a commercial job title should be presented:

EXAMPLE: Commercial Job Title: System Engineer

Minimum/General Experience: Three (3) years of technical experience which applies to systems analysis and design techniques for complex computer systems. Requires competence in all phases of systems analysis techniques, concepts and methods; also requires knowledge of available hardware, system software, input/output devices, structure and management practices.

Functional Responsibility: Guides users in formulating requirements, advises alternative approaches, conducts feasibility studies.

Minimum Education: Bachelor's Degree in Computer Science

USA COMMITMENT TO PROMOTE SMALL BUSINESS PARTICIPATION PROCUREMENT PROGRAMS

PREAMBLE

(Name of Company) provides commercial products and services to ordering activities. We are committed to promoting participation of small, small disadvantaged and women-owned small businesses in our contracts. We pledge to provide opportunities to the small business community through reselling opportunities, mentor-protégé programs, joint ventures, teaming arrangements, and subcontracting.

COMMITMENT

To actively seek and partner with small businesses.

To identify, qualify, mentor and develop small, small disadvantaged and women-owned small businesses by purchasing from these businesses whenever practical.

To develop and promote company policy initiatives that demonstrate our support for awarding contracts and subcontracts to small business concerns.

To undertake significant efforts to determine the potential of small, small disadvantaged and women-owned small business to supply products and services to our company.

To insure procurement opportunities are designed to permit the maximum possible participation of small, small disadvantaged, and women-owned small businesses.

To attend business opportunity workshops, minority business enterprise seminars, trade fairs, procurement conferences, etc., to identify and increase small businesses with whom to partner.

To publicize in our marketing publications our interest in meeting small businesses that may be interested in subcontracting opportunities.

We signify our commitment to work in partnership with small, small disadvantaged and women-owned small businesses to promote and increase their participation in ordering activity contracts. To accelerate potential opportunities please contact:

Loretta DeMaio
Spatial Integrated Systems, Inc.
2815 Rouse Road Extension
Kinston, NC 28504
Phone: 252-522-1456, Ext 123
Fax: 252-523-1803
loretta.demaio@sisinc.org

BEST VALUE
BLANKET PURCHASE AGREEMENT
FEDERAL SUPPLY SCHEDULE

(Insert Customer Name)

In the spirit of the Federal Acquisition Streamlining Act (ordering activity) and (Contractor) enter into a cooperative agreement to further reduce the administrative costs of acquiring commercial items from the General Services Administration (GSA) Federal Supply Schedule Contract(s) _____.

Federal Supply Schedule contract BPAs eliminate contracting and open market costs such as: search for sources; the development of technical documents, solicitations and the evaluation of offers. Teaming Arrangements are permitted with Federal Supply Schedule Contractors in accordance with Federal Acquisition Regulation (FAR) 9.6.

This BPA will further decrease costs, reduce paperwork, and save time by eliminating the need for repetitive, individual purchases from the schedule contract. The end result is to create a purchasing mechanism for the ordering activity that works better and costs less.

Signatures

_____		_____	
Ordering Activity	Date	Contractor	Date

BPA NUMBER_____

(CUSTOMER NAME)
BLANKET PURCHASE AGREEMENT

Pursuant to GSA Federal Supply Schedule Contract Number(s)_____, Blanket Purchase Agreements, the Contractor agrees to the following terms of a Blanket Purchase Agreement (BPA) EXCLUSIVELY WITH (ordering activity):

(1) The following contract items can be ordered under this BPA. All orders placed against this BPA are subject to the terms and conditions of the contract, except as noted below:

MODEL NUMBER/PART NUMBER	*SPECIAL BPA DISCOUNT/PRICE

(2) Delivery:

DESTINATION	DELIVERY SCHEDULES / DATES

(3) The ordering activity estimates, but does not guarantee, that the volume of purchases through this agreement will be _____.

(4) This BPA does not obligate any funds.

(5) This BPA expires on _____ or at the end of the contract period, whichever is earlier.

(6) The following office(s) is hereby authorized to place orders under this BPA:

OFFICE	POINT OF CONTACT

(7) Orders will be placed against this BPA via Electronic Data Interchange (EDI), FAX, or paper.

(8) Unless otherwise agreed to, all deliveries under this BPA must be accompanied by delivery tickets or sales slips that must contain the following information as a minimum:

(a) Name of Contractor;

(b) Contract Number;

(c) BPA Number;

(d) Model Number or National Stock Number (NSN);

(e) Purchase Order Number;

(f) Date of Purchase;

(g) Quantity, Unit Price, and Extension of Each Item (unit prices and extensions need not be shown when incompatible with the use of automated systems; provided, that the invoice is itemized to show the information); and

(h) Date of Shipment.

(9) The requirements of a proper invoice are specified in the Federal Supply Schedule contract. Invoices will be submitted to the address specified within the purchase order transmission issued against this BPA.

(10) The terms and conditions included in this BPA apply to all purchases made pursuant to it. In the event of an inconsistency between the provisions of this BPA and the Contractor's invoice, the provisions of this BPA will take precedence.

BASIC GUIDELINES FOR USING "CONTRACTOR TEAM ARRANGEMENTS"

Federal Supply Schedule Contractors may use "Contractor Team Arrangements" (see FAR 9.6) to provide solutions when responding to a ordering activity requirements.

These Team Arrangements can be included under a Blanket Purchase Agreement (BPA). BPAs are permitted under all Federal Supply Schedule contracts.

Orders under a Team Arrangement are subject to terms and conditions or the Federal Supply Schedule Contract. Participation in a Team Arrangement is limited to Federal Supply Schedule Contractors.

Customers should refer to FAR 9.6 for specific details on Team Arrangements.

Here is a general outline on how it works:

- The customer identifies their requirements.
- Federal Supply Schedule Contractors may individually meet the customer's needs, or -
- Federal Supply Schedule Contractors may individually submit a Schedules "Team Solution" to meet the customer's requirement.
- Customers make a best value selection.

Special Item No: 132-33 Perpetual Software Licenses
Detailed Product Descriptions

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TeamCenter Items		
EFI24051	**Lifecycle Representations**	User Module is a concurrent license to enable users to view, query, and navigate multiple lifecycle representations of products defined in Teamcenter. The Lifecycle Representations module provides the ability to associatively define multiple representations for different lifecycle stages or uses for a product or process. The capabilities include tools to create mapping between the multiple representations and to compare the consumption of end items in each. The applications enabled with Lifecycle Representation include Collaboration Context, Multiple View Editor and the web enabled Manufacturing Structure Viewer.
EFV12015	**Factory Mockup Bundle**	Factory Mockup uses core visualization technology from UGS to create virtual factories. With Factory Mockup, entire factory models can be loaded into an easy-to-use viewer, allowing colleagues throughout an organization to navigate and fly-through fully rendered 3D factory models. By integrating factory models into a visualization environment with motion and animation, Factory Mockup simplifies the review and validation of factory designs. Factory designers use Factory Mockup to incorporate graphical product data, layout models and tooling geometry as they build an entire virtual factory model and evaluate it as never before possible. Factory Mockup is designed to view large 3D factory layout models created with Factory CAD. Factory Mockup brings together tooling, product and plant all in the same environment.
FC10014	**FactoryCAD Floating**	FactoryCAD turns AutoCAD into a powerful factory modeling tools. Because the majority of the market has chosen to create factory layouts using AutoCAD, FactoryCAD was created to provide our customers with the tools to create factories easier. FactoryCAD resides within AutoCAD and it contains everything found in a standard factory layout. There are hundreds of parametric equipment symbols of racks, conveyors, safety equipment, and material handling equipment so that instead of drawing lines and creating blocks, our customers are dropping, dragging and snapping models together. The process is easy because of built-in intelligence. Because AutoCAD is a low-end CAD program, FactoryCAD gives our customers what they need to create accurate factory models faster.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TC10101	**Teamcenter Author**	An Author license provides a named user data creation capability within Teamcenter. Teamcenter user licenses include the base service level of visualization capabilities for all deployment options of the visualization tool. There are two levels of Teamcenter user licenses that correspond to the different roles within a company. The two user roles are for authoring and consuming product information from any interface to Teamcenter including the rich, thin, or any application client that has access to Teamcenter such as NX and Windows Explorer through network folder. Teamcenter provides a range of data vaulting capabilities, check-in/check-out, revision management, attribute synchronization, and searching. The product includes the ability to manage product structure. It also provides a suite of process & workflow automation tools. The author license provides data creation and modification for product and process information. The consumer license enables viewing, approving, rejecting or commenting on product and process information. Any user license includes execution of custom extensions written using Teamcenter open tools.
TC10102	**Teamcenter Consumer**	A Consumer license provides a named individual user access for viewing product and process information and update capabilities for, approving, rejecting or commenting on workflows within Teamcenter. All Teamcenter user licenses include the base service level of visualization capabilities for all deployment options of the visualization tool. There are two levels of Teamcenter user licenses that correspond to the different roles within a company. The two user roles are for authoring and consuming product information from any interface to Teamcenter including the rich, thin, or any application client that has access to Teamcenter such as NX and Windows Explorer via network folders. Teamcenter provides a range of data vaulting capabilities, check-in/check-out, revision management, attribute synchronization, and searching. The product includes the ability to manage product structure. It also provides a suite of process & workflow automation tools. The consumer license enables viewing, marking up, approving, rejecting or commenting on product and process information. Any user license includes execution of custom extensions written using Teamcenter open tools.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TC10201	**Content Management Author**	Teamcenter Content Management provides a solution for dynamic publishing that enables companies to automate the assembly and publishing of product or service information in multiple languages and formats. Content Management is an add-on module to Teamcenter that manages the text and graphic component that comprise the content of the publications. The module supports integrations to SGML/XML applications for authoring the components and publishing the information. The Content Management author license provides a named user data creation capability. The author can create document structure and content (text and graphics). The Content Management author can publish information and manage the translation process. An author license is required to perform the administration task.
TC10202	**Content Management Access**	Teamcenter Content Management provides a solution for dynamic publishing that enables companies to automate the assembly and publishing of product or service information in multiple languages and formats. Content Management is an add-on module to Teamcenter that manages the text and graphic component that comprise the content of the publications. The module supports integrations to SGML / XML applications for authoring the components and publishing the information. The Content Management access license provides a named user view access to the document structure and content.
TC10211	**Records Management Author**	Teamcenter Records Management provides functionality to categorize, store, retrieve, audit, and dispose of electronic records. It is based on the DoD 5015.2 standard for a Records Management Application (RMA). The RMA author has the ability to create file plans and establish disposition schedules for records.
TC10212	**Records Management Access**	Teamcenter Records Management provides functionality to categorize, store, retrieve, audit, and dispose of electronic records. It is based on the DoD 5015.2 standard for a Records Management Application (RMA). The RMA access license allows users to file records against file plans that have been established by an RMA author.
TC10221	**Research Knowledge Management Author**	The RKM product provides a set of product knowledge management capabilities tailored for the research and development environment. The product includes objects (i.e. notebook, primary record, adjunctive record), relationships, behavior, and workflows that are critical for a company to manage its intellectual property starting from its inception in a laboratory environment. The author product provides full creation, edit, query, print, and view functionality.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TC10222	**Research Knowledge Management Access**	The RKM product provides a set of product knowledge management capabilities tailored for the research and development environment. The product includes objects (i.e. notebook, primary record, adjunctive record), relationships, behavior, and workflows that are critical for a company to manage its intellectual property starting from its inception in a laboratory environment. This access product provides query, print, view, and participation in workflow functionality.
TC10231	**Change Management Author**	The Change Management module provides an in-context user experience and configurable business rules and participants to initiate, administer, review/approve and execute product changes seamlessly across your enterprise. The in-context user experience includes automated forward propagation of change properties and relations and automatically adding supporting change information to the correct change folders based on the context data and user action. Change Management enables a repeatable, closed loop process that allows you to ensure the appropriate level of rigor and control for each change based on the impacted business objects and the level of cost and risk of the change. Change Management Author provides capabilities to create Change Requests or Change Notices including any supporting information, to create Work Breakdown for change, to make interactive metadata updates to any Change Object, to update supporting information to any folder of any Change Object, to persist the rollup from WBS to top-level Change Objects by propagating the relation of business items referenced throughout WBS up to top-level Change Object. If you choose to break down the work associated with elaborating and implementing a change into multiple tasks in the latest releases of Teamcenter, this is facilitated through the use of the Schedule Manager. With the optional Schedule Manager license [TC30301 - Program Execution Management Author], you are able to create and elaborate a Work Breakdown Plan for the Change directly from within the Change Manager application.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TC10232	**Change Management Access**	The Change Management module provides an in-context user experience and configurable business rules and participants to initiate, administer, review/approve and execute product changes seamlessly across your enterprise. The in-context user experience includes automated forward propagation of change properties and relations and automatically adding supporting change information to the correct change folders based on the context data and user action. Change Management Access includes the ability for named change instigators, administrators, reviewers, approvers, planners, and implementers to formally propose, review, approve and incorporate changes, to create Problem Reports and Issues, to add supporting information to the Reference Items folder of Problem Reports, to receive assignments and participating in workflows for any change object, to set Change Object properties via Workflow mechanisms, to view all Change Objects and relations, to add Problem Items and Reference Items to ECR's / ECN's while these objects are work-in- process (i.e. Maturity is Elaborating) and as long as the user is a "requestor" of the Change Object.
TC10405	**Teamcenter Open (SDK)**	The Teamcenter Open (SDK) consists of a collection of open tools to extend the Teamcenter application. These tools include published API's and libraries for adding custom extensions to Teamcenter applications as well data extraction programs that can be used to copy information for passing to third party applications.
TC10406	**Global Services CPU Capacity**	Teamcenter provides an integration framework (Global Services Framework) that is designed to support the exchange of data between Teamcenter and non Teamcenter products. This framework is provided along with a license to deploy this framework on a single CPU host as part of the standard Teamcenter purchase.
TC10409	**STEP AP 203/214 Translator**	STEP AP 203/214 Translator provides for importing and exporting Teamcenter data via STEP AP 203 and 214 files. The translator provides for exchange of basic product id, product version, product information, and configuration management data.
TC1DOTC	**Teamcenter Deployment**	The zero cost TC1DOTC product ID indicates that Teamcenter Unified Architecture media and license files should be shipped to the customer. The Deployment Option is also an important prerequisite indicator for all Teamcenter products starting with the Teamcenter 2007.1 release.
TC20620	**Visualization Mockup**	Teamcenter® Visualization Mockup provides named user access to the following deployments of Teamcenter Visualization connected to Teamcenter: • Visualization application integrated with Teamcenter • Visualization embedded into Teamcenter rich client

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TC20705	**Teamcenter Visualization & Illustration**	Teamcenter Visualization & Illustration enables the engineering professionals to author, distribute and visualize the most current product data in a controlled, multi-media environment and provide the work and maintenance instructions to downstream users.
TC20706	**Visualization Analysis**	TC Visualization Analysis Option consists of three main components: Cross Section Manager enables the creation of multiple cross-sections along an axis or a curve. View and measure between multiple cross-sections and output the graphical results in HPGL format. Interference Manager provides a set of tools to manage clearance calculation results. Reloading previous results increases clearance calculations performance. Priority, status and comments may be assigned to each interference issue. Each interference issue is assigned a unique designation for tracking and management purposes. Zone classification enables the Interference Manager to assign issues based on geometric location. Automatic electronic notification is available as an integral piece of the interference analysis.
TC20707	**Visualization Animation Creation**	Visualization Animation Creation Option enables the creation of multi-media motion sequences. These animation are created based on the timing and occurrence of events. A wide range of possible events includes camera actions, tracking, web (URL's), sound, linear motion, launch action upon pick and text. These animations can be played natively by TC Vis Professional Plus and TC Vis Mockup or exported to common motion file formats. Animation extends understanding by leveraging a full multimedia presentation of ideas.
TC21200	**Community Collaboration**	Teamcenter for community collaboration extends Teamcenter with ad hoc collaboration capabilities. Community collaboration provides a collaborative framework where product information can be communicated among all key participants in the product lifecycle, eliminating barriers between functional groups, and integrating PLM data from many different sources into one easy to use interface. Providing the real-time collaboration foundation for Teamcenter, community collaboration provides an ad hoc collaboration environment for a global community of technical and non-technical users to collaborate in real time. • Product Lifecycle Collaboration • Real-Time, Ad-Hoc Collaboration • Secure and Scalable Distributed Team Environment • Business Application Integration

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TC21205	**Community Collaboration Server**	Teamcenter for community collaboration extends Teamcenter with ad hoc collaboration capabilities. Community collaboration provides a collaborative framework where product information can be communicated among all key participants in the product lifecycle, eliminating barriers between functional groups, and integrating PLM data from many different sources into one easy to use interface. Providing the ad-hoc collaboration foundation for Teamcenter, community collaboration provides an ad hoc collaboration environment for a global community of technical and non-technical users to collaborate in real time. Community collaboration provides these benefits with shorter deployment times, greater cost effectiveness, and more flexibility than any available market alternatives.
TC30101	**Requirements Management Author (Unified)**	Teamcenter Requirements Management provides the first of its kind integrated requirements capability for delivering requirements throughout the Teamcenter environment. This means requirements are delivered to everyone in the context of the product throughout the entire product life cycle-allowing the voice of the customer to directly influence product development.
TC30101R	**Requirements Management Author (Standalone)**	Teamcenter SE Requirements Management (RM) is a standalone RM application that can link requirements into the Teamcenter environment. This means requirements are delivered to everyone in the context of the product throughout the entire product life cycle so requirements have the opportunity to influence product development as its happening. Product features include: • Microsoft Standard User interface that looks/acts like Windows Explorer (zero learning curve) • Java based client that supports rapid/automatic deployment based on standard HTML/Web browser technology (minimum deployment effort) • Document import/export using Microsoft Word. • Direct requirements editing using standard desktop environments (Word) combined with a multi-user database (allowing everyone to work together on developing requirements at the same time) • Full requirements access control and tracking • Fully URL accessible requirements organization, derivation, and linking • Linking/chasing to other Teamcenter members (including Project, Enterprise, and Engineering) • Compete traceability navigation/reporting (including Excel export)

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TC30102	**Requirements / Systems Architect Access (Unified)**	Consumer/read-only license for viewing/accessing requirements and systems engineering information created by Teamcenter RM and SA authoring licenses. To utilize Requirements Management an access license is required for every Teamcenter user including those that will also have author licenses for the module.
TC30102R	**Requirements / Systems Architect Access (Standalone)**	Teamcenter Systems Engineering Requirements/Systems Architect Consumer License provides read-only access to requirements in Teamcenter SE standalone application. It is a consumer/read-only license for viewing/accessing requirements and systems engineering information created by Teamcenter RM and SA authoring licenses.
TC30301	**Program Execution Management Author**	The Teamcenter Program Execution Management (PEM) license will enable the user to create, update, and delete projects & programs, schedules, tasks, and resources in Teamcenter.
TC30302	**Program Execution Management Access**	The Teamcenter ACCESS license will allow users to "receive" tasks in their Teamcenter in-boxes and complete those tasks by adding completed "deliverables" and signing off those tasks. Updates will be reflected in the executing project schedules. ACCESS users may access schedules they are able to view, update their own tasks in schedules, and update time in timecards.
TC30401	**Classification Author**	Classification facilitates reuse of existing parts, products, processes, and the knowledge captured in their designs by making those objects easy to find via their classification. It provides a means to catalog standard parts, products and processes as well as avoid proliferation of duplicates. Classification Author allows a named user to; create classification hierarchies, define classification attributes and the allowable values, and assign security privileges and set up views. Each Classification Author license must also have a Classification Access license.
TC30701	**Product Configuration Author**	Product Configuration Author enables a named user to introduce and manage variabiltiy across a product suite. It enables the user to leverage the commonality across the product suite and manage a whole range of product variants in a single product structure. Product Configuration enables the user to introduce all features or options that will be offered for the product along with the rules controlling how these features may be combined to generate an allowable product variant. Product Configuration offers wizards and tabular user interfaces to lead the user through the setup and configuration process needed to define and configure product variants and customer orders.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TC30702	**Product Configuration Access**	To utilize Product Configuration an access license is required for every Teamcenter user including those that will also have author licenses for the module.
TC30711	**Lifecycle Representations Author**	Lifecycle Representations Author enables a named user to define and compare multiple lifecycle representations of products defined in Teamcenter Lifecycle Representations provides the ability to associatively define multiple representations for different lifecycle stages or uses for a product or process. The capabilities include tools to create mapping between the multiple representations and to compare the consumption of end items in each. The applications enabled with Lifecycle Representation include Collaboration Context and the Multiple View Editor Lifecycle Representations for Teamcenter BOM Customers Lifecycle Representations allows a named user to align their CAD design data to the BOM data in Teamcenter BOM Usage server. This alignment is accomplished from the Teamcenter Engineering Rich Client interface. The user can also query Usage data stored in the Usage Server. Aligning CAD with the BOM allows virtual builds to be driven from the true product intent orderable by customers.
TC30712	**Lifecycle Representations Access**	Lifecycle Representations Access enables a named user to view, query, and navigate multiple lifecycle representations of products defined in Teamcenter. To utilize Lifecycle Representations, an access license is required for every Teamcenter Engineering user including those that will also have author licenses for the module. The Lifecycle Representations module provides the ability to associatively define multiple representations for different lifecycle stages or uses for a product or process. The capabilities include tools to create mapping between the multiple representations and to compare the consumption of end items in each. The applications enabled with Lifecycle Representation include Collaboration Context and the Manufacturing Structure Editor.
TCG24050	**Lifecycle Representations Access – Named User**	Lifecycle Representations Access enables a named user to view, query, and navigate multiple lifecycle representations of products defined in Teamcenter. To utilize Lifecycle Representations, an access license is required for every Teamcenter Engineering user including those that will also have author licenses for the module. Lifecycle Representations Access licenses are required when adding the Lifecycle Representations module to the install. The Lifecycle Representations module provides the ability to associatively define multiple representations for different lifecycle stages or uses for a product or process. The capabilities include tools to create mapping between the multiple representations and to compare the consumption of end items in each. The applications enabled with Lifecycle Representation include Collaboration Viewer.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TCG24051	**Lifecycle Representations Author – Named User**	Lifecycle Representations Author enables a named user to define and compare multiple lifecycle representations of products defined in Teamcenter. Lifecycle Representations provides the ability to associatively define multiple representations for different lifecycle stages or uses for a product or process. The capabilities include tools to create mapping between the multiple representations and to compare the consumption of end items in each. The applications enabled with Lifecycle Representation include Collaboration Context and the Multiple View Editor. Lifecycle Representation for Teamcenter BOM Customers Lifecycle Representation allows a named user to align their CAD design data to the BOM data in Teamcenter BOM Usage server. This alignment is accomplished from the Teamcenter Engineering Rich Client interface. The user can also query Usage data stored in the Usage Server. Aligning CAD with the BOM allows virtual builds to be driven from the true product intent orderable by customers. All CAD users who will access Usage data from Teamcenter Engineering Rich Client should purchase a Lifecycle Representation Author License. Lifecycle Representation Access licenses should be purchased in accordance with the current policy (see TCG24050).

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TCM24804	**Teamcenter Mfg Documentation**	Teamcenter Manufacturing Documentation provides a range of documentation solutions including Visio based documents, textual work instructions and dynamic 3D PDFs (coming in future release). TC documentation provides rich Work Instructions and collaboration between departments, integrated with the planning environment, leveraging Teamcenter's data management capabilities. Standard Text and work instructions: Create and maintain textual work instructions. Enable to create a library of generic textual instructions based on the company's standards. These are used for the creation of work instructions for manufacturing operations. Main features: • Generate work instructions based on standards • Define work instructions templates determining visual attribute of the page, such as: font size and type, background color, text alignment, etc. • Define Data Collections in the work instructions, to be filled by the workshop operator using the MES, capturing the as-built data • Familiar Microsoft Word environment TC Publish: Easy-to-use WYSIWYG environment for creating work instructions for manufacturing operations. It enables a user to author, distribute and visualize the most current product and process data. Main features: • Technical illustrations including text, 2D images, 3D graphics, table, text and hyperlinks (e.g. a link to a movie file) to improved clarity and enhanced quality on the shopfloor • Easy update based on the up to date planning data in Teamcenter, reducing rework and update times • Allowing batch processing and scheduling of reports • Familiar Microsoft Visio authoring environment allowing WYSIWYG editing
TCM55000	**Teamcenter Mfg Access**	Teamcenter Manufacturing Access - This module provides a view-only application to interrogate manufacturing data structures. Users will have access to view manufacturing data and relationships, but not have access to create, edit, or delete any manufacturing items or relationships between items. Users will be able to: • Create, view, and store reports. • Create and edit attachments • Filter based on configuration if the module is purchased • Browse process and operations and work areas • View associations of resources (if the resource module is purchased) to work areas and process/operations • View associations of product to process/operations.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TCM55001	**Teamcenter Mfg Assembly Author**	This module allows users to define a process plan for assembly manufacturing operations. This includes the definition and management of product, process and plant structures and their relationships to each other, and to modify multiple manufacturing-related structure data such as multiple manufacturing Bills of Material. The functionality provided by this product is as follows: • Creating processes, operations and activities • Creating work areas • Create and manage multiple Bills of Material as well as Bills of Process • Associate resources to work areas and process/operations • Associate product to process/operations. • Creating/viewing activities under operations. • Generating reports • Sequence operation using Pert Diagram • Performing accountability check • Load and modify multiple structures • Generating assembly trees
TCM55010	**Teamcenter Mfg Resource Manager**	This module allows users to define resource components and resource assemblies. These resources can then be classified in the Teamcenter Classification library. This includes the definition and management of resources and the BOM of these resources. The functionality provided by this product is as follows: • Creating resources • Creating resource assemblies • Classify resources • Create 3D graphics of resources • Guided Component Search for knowledge based creation of resources assemblies • Generating reports • Performing Where used checks • View, edit and author documents which are related to the resources
TN70010NU	**Assembler on Teamcenter**	The Assembler option enables the design, analysis and verification of product assembly and disassembly processes. It features a hierarchical assembly tree, allows the creation and simulation of assembly paths and Sequences of Operations (SOP), and enables collision detection, as well as 2D and 3D sectioning and measurement analyses" Available only for existing customers with this product.
TN70030C	**Process Simulate Human Concurrent**	The Human add-on to Process Simulate allows users to populate their environments with accurate human models for analysis of workplace ergonomics. The male and female figures can be scaled to represent any population, and can be assigned tasks. Ergonomic assessments including NIOSH, OWAS, vision and clearance checks can be performed. Performance assessments can be displayed in real-time or output to user customizable ergonomics reports. Timing information can be applied to operations using the Process Simulate time standard models. Human operations are integrated with other Process Simulate operations.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TN70030NU	**Process Simulate Human Named User**	Human enables you to design, analyze and optimize detailed human operations. The software provides different sized virtual human figures that can be used for manual task simulation, as well as ergonomics and assembly time analyses. Human provides easy feasibility checks of human tasks, interactive improvement of manual workplaces and evaluation of different design variants.
TN70031NU	**Process Simulate Human Advanced (Jack)**	The Human Advanced tool is an add-on to the Process Simulate Human product. The Advanced Option provides additional analysis tools to perform in-depth ergonomic studies of manual workplaces. These tools include: a flexible biomechanical model to assess joint loads and moments with the ability to define force inputs to the figure at any location, the analysis of population Static Strength capability and the analysis of Low Back injury risk. The analysis can be captured in user configurable HTML ergonomic reports, or output to XML based files for post processing. Human Advanced (Jack) is a requirement for the Motion Capture add-on product. Important Note: Human options for PS on Teamcenter are only available for Teamcenter 2007.1 (Unified Architecture ¿ TC1DOTC) and later." Available only for existing customers with this product.
TN70032NU	**Process Simulate Motion Capture**	The Motion Capture (MoCap) tool is an add-on to Process Simulate Human Advanced (Jack). With this product users can explore their designs in Process Simulate on Teamcenter with virtual reality technology. Real-time data from the Motion Tracking system can be streamed to the Human application, such that the virtual figure follows the location and posture of the subject. Head mounted display and data glove hardware are also supported, so users can literally walk through their concept designs and perform tasks virtually. The immersive experience can provide engineers with a more comprehensive ergonomic evaluation than using quantitative data alone. The Motion Capture feature requires both the Process Simulate Human and Human Advanced (Jack) options. Note: This option is not available with Process Simulate Human Advanced (Ramsis). Important Note: Human options for PS on Teamcenter are only available for Teamcenter 2007.1 (Unified Architecture ¿ TC1DOTC) and later." Available only for existing customers with this product.
TN70070NU	**Auto Path Planner for PS on TC**	Automatic Path Planner ¿ PS enables the user to create a collision free path for a flow operation (assembly process) and robotic operation (weld process). The application reduces process planning time in complex assembly and robotics lines and complicated assembly process." Available only for existing customers with this product.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TN75005	**Plant Simulation Professional**	The Plant Simulation Professional license is the most powerful Plant Simulation program package and allows to run the most complex simulation studies. The number of objects is unlimited. Numerous mechanisms support creating, validating and maintaining large projects. The Plant Simulation Professional license allows to interactively create simulation models using pre-defined basic objects. Plant Simulation Professional provides a number of additional functions for the advanced user as compared to Plant Simulation Standard. These functions facilitate editing complex projects, increase efficiency and support the collaboration between a number of colleagues within a project. The Plant Simulation Professional license can be extended with the optional modules for 3D visualization, database interfaces, the Assembly and Shop libraries, as well as a Gantt, an Aris and an SDX module.
TN75050	**Plant Simulation Interface Package** **Node Locked**	The Plant Simulation interface package includes the following interfaces: Oracle SQL data base interface, ODBC, Socket communication with external applications, C/C++ programming interface, ActiveX interface, OPC interface (since version 8.2).
TN75060	**Plant Simulation SDX Interface** **Node Locked**	Interface to use Plant Simulation to simulate and evaluate layout and processes defined in Factorycad." Available only for existing customers with this product.
TN75065	**Plant Simulation 3D Visualization** **Node Locked**	Integrated 3D visualization for Plant Simulation
TN75070	**Plant Simulation Gantt Chart** **Node Locked**	Gantt Chart tool to display e.g. machine occupations graphically
TN75085	**Plant Simulation Assembly Library** **Node Locked**	Enhanced object library to model and simulate assembly lines and processes in an efficient way
TN85005NU	**Process Simulate on Teamcenter**	Process Simulate on Teamcenter enables planning and designing of complex assembly facilities, lines and workplaces. The product supports a structured process from block layout, through line planning to detailed design and optimization, verification and simulation of individual workplaces

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TNQ1014	**CMM Inspection Programming Professional Node Locked**	CMM Inspection Programming Professional enables you to generate complex inspection programs by using nominal NX geometry to generate, optimize and verify off-line inspection programs for CMMs and NC machine tools. CMM Inspection Programming Professional enables you to interpret component and assembly tolerances defined by engineering that can be used during programming for the identification of critical features and analysis of inspection results. Features: • Embedded within NX and Catia V5 • CAD model data storage • Real-time 3D graphics for quick review and modification • Generation of complex inspection programs regardless of DMI implementation • Bi-directional communication with machine tools • User-defined component and assembly tolerances • Enables the analysis and evaluation of measured data against nominal models according to ANSI Y14.5, ASME Y14.5 or ISO 1011 Standards, and provides consistent mathematical and graphical data to perform best-fit analysis and the verification of possible causes of tolerance failure
TNQ1014C	**CMM Inspection Programming Professional Concurrent**	CMM Inspection Programming Professional enables you to generate complex inspection programs by using nominal NX geometry to generate, optimize and verify off-line inspection programs for CMMs and NC machine tools. CMM Inspection Programming Professional enables you to interpret component and assembly tolerances defined by engineering that can be used during programming for the identification of critical features and analysis of inspection results. Features: • Embedded within NX and Catia V5 • CAD model data storage • Real-time 3D graphics for quick review and modification • Generation of complex inspection programs regardless of DMI implementation • Bi-directional communication with machine tools • User-defined component and assembly tolerances • Enables the analysis and evaluation of measured data against nominal models according to ANSI Y14.5, ASME Y14.5 or ISO 1011 Standards, and provides consistent mathematical and graphical data to perform best-fit analysis and the verification of possible causes of tolerance failure.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX Mach CAD Items		
NX10101	**NX Mach Designer - Node Locked**	NX Mach Design enables customers to create and document a wide range of products and components. It features powerful capabilities in modeling, drafting, and assembly modeling, and is supported by innovative technologies like DesignLogic, Design Freedom powered by Synchronous Technology and Knowledge Fusion. NX Mach Design provides customers with the opportunity to incorporate knowledge into every step of the product development process, and enables knowledge driven validation for improved product and process quality. Additionally, NX Mach Design provides straight break sheet metal capabilities, and entry level freeform modeling tools. All common translators are included, as well as the capabilities to run a variety of automation applications.
NX10105	**NX Mach Power Drafting**	The NX Mach Power Drafting product bundle is a fully functional standalone drafting product and can be used to create detailed production mechanical drawings in a managed development environment (MDE) in two basic ways: • As a tool for documenting 3D solid models created in NX "and/or" • As a standalone high-performance 2D drafting system NX Mach Power Drafting contains both NX Drafting and NX DraftingPlus. NX DraftingPlus extends the NX Drafting toolset by providing additional 2D and 3D drawing productivity tools, with the primary focus of addressing 2D design and drawing production requirements. NX DraftingPlus is fully integrated into NX Drafting and offers a set of 2D-centric drawing tools for customers who require 2D design and layout capabilities, or who want to maintain or reuse legacy 2D drawings. Key features of NX DraftingPlus include a common user interface with NX, 2D optimization, robust drawing view creation tools, easy symbol creation and reuse, extensive drafting standard compliance, data migration, and a bridge to 3D. NX Mach Power Drafting also includes a managed development environment powered by Teamcenter, with data management and visualization capabilities for product and process management. NX Mach Power Drafting content: • Teamcenter Engineering - NX Manager • Teamcenter - CAD Manager Server • Teamcenter - Visualization Base • Gateway • Drafting • DraftingPlus • Translators (IGES, DXF/DWG, 2D Exchange)

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX10106	**NX Power Drafting**	The NX Power Drafting product bundle is a fully functional 2D standalone drafting product and can be used to create detailed production mechanical drawings in two basic ways: • As a tool for documenting solid models created in NX • As a standalone high-performance 2D drafting system NX Power Drafting contains NX DraftingPlus and extends the NX Drafting toolset by addressing 2D design and drawing production requirements. It offers a highly productive, robust set of 2D centric drawing tools along with annotation support for all major national and international standards. NX Drafting also provides improved 2D translation to support legacy systems as well as 2D to 3D automation functionality. Because it is build on the NX Drafting framework, it will also support automatic drawing layout creation including orthographic view projection, sectioning, auxiliary and detail views.
NX11100	**NX Mach 1 Design (Node Locked)**	Mach 1 Design enables customers to create and document a wide range of products and components in a managed development environment (MDE). It features powerful capabilities in modeling, drafting, and assembly modeling, and is supported by innovative technologies like DesignLogic, Direct Modeling eXtensions, WAVE, and Knowledge Fusion. Mach 1 Design provides customers with the opportunity to incorporate knowledge into every step of the product development process, and enables knowledge driven validation for improved product and process quality. Additionally, Mach 1 Design provides straight break sheet metal capabilities, and comprehensive freeform modeling tools. All common translators are included, as well as the capabilities to run a variety of automation applications. Mach 1 Design includes a managed development environment powered by Teamcenter, with data management and visualization capabilities for product and process management.
NX11110	**NX Mach 1 Design (Floating)**	Mach 1 Design enables customers to create and document a wide range of products and components in a managed development environment (MDE). It features powerful capabilities in modeling, drafting, and assembly modeling, and is supported by innovative technologies like DesignLogic, Direct Modeling eXtensions, WAVE, and Knowledge Fusion. Mach 1 Design provides customers with the opportunity to incorporate knowledge into every step of the product development process, and enables knowledge driven validation for improved product and process quality. Additionally, Mach 1 Design provides straight break sheet metal capabilities, and comprehensive freeform modeling tools. All common translators are included, as well as the capabilities to run a variety of automation applications. Mach 1 Design includes a managed development environment powered by Teamcenter, with data management and visualization capabilities for product and process management.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX12100	**NX Mach 2 Product Design**	Mach 2 Product Design enables customers to create and document a wide range of products and components in a managed development environment (MDE). It extends Mach 1 Design capabilities by providing productivity and quality enhancement tools for data reuse, and definition of validation checks. It also provides users with enhanced visualization with both dynamic and photo-realistic rendering tools. Mach 2 Product Design features powerful capabilities in modeling, drafting, and assembly modeling supported by innovative technologies like DesignLogic, Direct Modeling eXtensions, PMI, WAVE, and Knowledge Fusion. Mach 2 Product Design provides customers with the opportunity to incorporate knowledge into every step of the product development process, and enables knowledge driven validation for improved product and process quality. Additionally, Mach 2 Product Design provides straight break sheet metal capabilities, and comprehensive freeform modeling tools. All common translators are included, as well as runtime capabilities for a variety of automation applications. Mach 2 Product Design includes a managed development environment powered by Teamcenter, with data management and visualization capabilities for product and process management. Mach 2 Product Design is offered with floating license only.
NX13100	**NX Mach 3 Product Design**	Mach 3 Product Design includes all capabilities of Mach 2 Product Design, and adds advanced capabilities for building product assemblies, creating and manipulating freeform shapes, adding Product & Manufacturing Information (PMI) to 3D models and assemblies, performing design optimization, and validation of molded parts for manufacturability. Mach 3 Product Design also offers high-end surface creation, manipulation, and analysis capabilities to enable customers create aesthetically appealing, innovative products. Mach 3 Design capabilities provide productivity and quality enhancement tools for data reuse, and definition of validation checks. It also provides users with enhanced visualization with both dynamic and photo-realistic rendering tools. Mach 3 Product Design features powerful capabilities in modeling, drafting, and assembly modeling supported by innovative technologies like DesignLogic, Direct Modeling eXtensions, WAVE, and Knowledge Fusion. Mach 3 Product Design provides customers with the opportunity to incorporate knowledge into every step of the product development process, and enables knowledge driven validation for improved product and process quality. Mach 3 Product Design includes a managed development environment powered by Teamcenter, with data management and visualization capabilities for product and process management.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX30142	**NX Ship Design**	NX Ship Design provides a focused environment for modeling the structural area of a ship. The application includes features specific to ship design such as the frames, decks, and bulkheads. The application also allows for the definition of the sections for the General Arrangement, Compartment, and the Detailed Steel Plans. Once these Section plans are created, a user can design the steel structure for the ship. The user can easily design this structure using the steel features of linear and non-linear profiles for ship frames, linear and non-linear sheets for compartment walls, and linear and non-linear belts for support structures between walls. Once the steel structure is complete, a user can create Marking Lines to aide in the assembly of the ship and Rolling Lines that aid in the forming of the parts. Then use the Distribution module to place every solid in a single part file for manufacturing.
NX MACH CAM Items		
NX10210	**NX CMM Inspection Programming**	NX CMM is a module based on NX CAM that enables the user to use PMI to create fully associative programs for Coordinate Measurement Machines (CMM). The current methods of creating CMM programs are too expensive, take too long, are error prone and require scarce, highly skilled resources. NX CMM makes CMM programming an integral part of the PLM process, fully automated by NX geometry and PMI and managed in Teamcenter. Specifically: • If PMI is present in the model, programs can be generated automatically. If PMI is not present, customers can quickly create programs linked directly to the model geometry • Full machine simulation for path generation and collision detection • Post Processor support for DMIS or customer written CMM vendor languages • Automatic program updates based on changes to the model • Support multiple CAD data formats via NX translators
NX11430	**Mach 1 CAM Foundation**	The CAM Foundation provides all the basics needed for NC programming: • Assembly modeling environment • Translators for IGES, STEP, Parasolid, etc. • Toolpath replay and material verification • Wizard builder • Tool path editor • Shop Documentation • Post processing • Interactive Post Builder

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX12440	**Mach 2 CAD/CAM Turning Foundation**	The CAD/CAM Turning Foundation provides all the basics needed for a Turning seat in the NX CAD/CAM environment: • Assembly modeling environment • Translators for IGES, STEP, Parasolid, etc. • Toolpath replay and material verification • Generic motion control • Holemaking and probing cycle support • Wizard builder • Tool path editor • Shop Documentation • Post processing • Interactive Post Builder • Turning • Solid Modeling and Drafting • Feature Modeling and basic Freeform • User Defined Features • Sheet Metal design • Quick Check, Web Express, and Xpress Review
NX12450	**Mach 2 CAD/CAM Milling Foundation**	The CAD/CAM Milling Foundation provides all the basics needed for a Milling seat in the NX CAD/CAM environment: • Assembly modeling environment • Translators for IGES, STEP, Parasolid, etc. • Toolpath replay and material verification • Generic motion control • Holemaking and probing cycle support • Wizard builder • Tool path editor • Shop Documentation • Post processing • Interactive Post Builder • 2.5 Axis roughing, profiling, and face milling • 3 Axis surface finishing • NURBS machining • Solid Modeling and Drafting • Feature Modeling and advanced Freeform • User Defined Features • Sheet Metal design • Quick Check, Web Express, and Xpress Review • Geometric tolerancing • Studio visualization • Checkmate

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX12460	**Mach 2 CAM-only 5 Axis Machining**	The CAM-only 5 Axis Machining product provides complete milling capabilities from 2 axis through 5 axis cutting complete with g-code driven machine simulation: • Assembly modeling environment • Translators for IGES, STEP, Parasolid, etc. • Toolpath replay and material verification • Generic motion control • Holemaking and probing cycle support • Wizard builder • Tool path editor • Shop Documentation • Post processing • Interactive Post Builder • 2.5 Axis roughing, profiling, and face milling • 3 Axis surface finishing • NURBS machining • 5 axis surface machining and swarfing • 5 axis manual machining (sequential milling) • G-code drive machine simulation • Multi-channel program synchronization
NX13430	**Mach 3 Total Machining**	The Total Machining product covers the full breadth of machining capability in the NX CAD/CAM environment: • Assembly modeling environment • Translators for IGES, STEP, Parasolid, etc. • Toolpath replay and material verification • Generic motion control • Holemaking and probing cycle support • Wizard builder • Tool path editor • Shop Documentation • Post processing • Interactive Post Builder • Turning • Wire EDM • 2.5 Axis roughing, profiling, and face milling • 3 Axis surface finishing • NURBS machining • 5 axis surface machining and swarfing • 5 axis manual machining (sequential milling) • G-code drive machine simulation • Multi-channel program synchronization • Feature Based Machining Author • Solid Modeling and Drafting • Feature Modeling and advanced Freeform • User Defined Features • Sheet Metal design • Quick Check, Web Express, and Xpress Review • Geometric tolerancing • Studio visualization • Checkmate

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX13440	**Mach 3 Advanced 5 Axis Machining**	The Advanced 5 Axis Machining product provides complete milling capabilities up to and including specialized methods for cutting turbo machinery components. This product is suitable for extensive 5 axis programming of challenging parts and includes: • Assembly modeling environment • Translators for IGES, STEP, Parasolid, etc. • Toolpath replay and material verification • Generic motion control • Holemaking and probing cycle support • Wizard builder • Tool path editor • Shop Documentation • Post processing • Interactive Post Builder • 2.5 Axis roughing, profiling, and face milling • 3 Axis surface finishing • NURBS machining • 5 axis surface machining and swarfing • 5 axis manual machining (sequential milling) • 5 axis multi-blade turbomachinery milling • G-code drive machine simulation • Multi-channel program synchronization • Feature Based Machining • Solid Modeling and Drafting • Feature Modeling and advanced Freeform • User Defined Features • Sheet Metal design • Quick Check, Web Express, and Xpress Review • Geometric tolerancing • Studio visualization • Checkmate
NX30408	**NX Turning Add-on**	Complete turning functionality for single channel programming, including roughing and finishing operations for facing, turning, and boring.
NX30409	**NX 5 Axis Machining Add-on**	5 Axis Milling functionality, including tip cutting strategies, side cutting strategies, and traditional drive/part strategies.
NX30431	**NX Wire EDM Add-on**	The Wire EDM add-on provides full-function capabilities for 4-axis wire programming: Special engages and retracts for wire threading and breaking No-core options for full material removal
NX30432	**NX 2.5 Axis Milling Add-on**	The 2.5 Axis Milling Add-on provides a complete suite of 2 D milling capabilities for NC programming: • Boundary based methods • Face Milling • Profile cutting • Flexible, solids-based roughing and re-roughing of complex shapes. • Multi-axis positioning to any valid machining coordinate system

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX30433	**NX 3 Axis Milling Add-on**	The 3 Axis Milling Add-on provides a complete suite of 3 D milling capabilities for NC programming: • Surface Milling, including streamline patterns • Valley and Corner Milling • Facet machining • NURBS output • Multi-axis positioning to any valid machining coordinate system
NX30434	**NX NC Simulation Add-on**	The NC Simulation Add-on provides a complete kinematic machine environment for visualizing complex motion: • Machine builder applies kinematic rules to machine axes • Collision checking • Synchronization manager for simulation of multi-channel machines • G-code driven simulation uses posted code for the most accurate machine motion
NX30601	**NX CATIA V4 Interface (Translator)**	The NX CATIA V4 interface (translator) allows the reading and writing of Catia model and exp files solid and surface geometry. The user can access Catia V4 files from the File Open, File Save As, File Import and File Export dialogs. This tool will flatten assemblies to a single level on both import and export. Drawing and Wireframe data are not supported.
NX30604	**NX CATIA V5 Interface (Translator)**	The NX CATIA V5 interface allows for bidirectional translation between CATIA V5 and NX. The translator reads CATPart and CATProduct files. This tool will read geometry, assembly structure, and attribute data of color, layer, and name from CATIA V5 into NX. This translator will also write NX solid and surface geometry to a CATIA V5 CATPart file and flattens the NX assembly structure into single CATPart. Drawings are not supported. This translator does not replace the CATIA V4 interface and is not an upgrade for any of the currently available CATIA V4 translators.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
FEMAP and NASTRAN Items		
E002	**FEMAP (Node Locked)**	Femap (Node Locked) Finite Element Modeling and Post-Processing. Femap is a general purpose, CAD-impendent, solver neutral, pre- and post-processor for engineering finite element analysis (FEA). The Node Locked license is secured using a Parallel or USB Rainbow SuperPro dongle (the USB dongle is the default). Femap can import CAD data from I-deas, NX, Solid Edge, SolidWorks, Catia v4, Pro/E, ACIS, Parasolid, IGES, STEP etc. An optional Catia v5 CAD Data Translator (E075) can be added to this license. Finite Element models for structural, thermal, and dynamic analysis of engineered parts or assemblies can be constructed using CAD geometry as the baseline, or constructed bottom up in a traditional finite element modeling process. Femap supports twenty FEA solvers, most notably NX Nastran, MSC Nastran, ANSYS, ABAQUS and LS-DYNA. An extensive array of element types, material models, idealization, including mid-surfacing and solid geometry cleanup and simplification make it possible to create efficient and accurate models of any engineered structure. Femap includes integrated geometry editing and creation for wireframe, surface, and solid geometry using the Parasolid geometry kernel.
E004	**FEMAP (Floating)**	Femap (Floating) Finite Element Modeling and Post-Processing. Femap is a general purpose, CAD-impendent, solver neutral, pre- and post-processor for engineering finite element analysis (FEA). The Floating license is secured with the industry standard FLEXlm licensing system. Femap ships with FLEXlm license server software for 32-bit Windows, HP, IBM, and Sun UNIX platforms. Femap can import CAD data from I-deas, NX, Solid Edge, SolidWorks, Catia v4, Pro/E, ACIS, Parasolid, IGES, STEP etc. An optional Catia v5 CAD Data Translator (E076) can be added to this license. Finite Element models for structural, thermal, and dynamic analysis of engineered parts or assemblies can be constructed using CAD geometry as the baseline, or constructed bottom up in a traditional finite element modeling process. Femap supports twenty FEA solvers, most notably NX Nastran, MSC Nastran, ANSYS, ABAQUS and LS-DYNA. An extensive array of element types, material models, idealization, including mid-surfacing and solid geometry cleanup and simplification make it possible to create efficient and accurate models of any engineered structure. Femap includes integrated geometry editing and creation for wireframe, surface, and solid geometry using the Parasolid geometry kernel.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NXN004	**NX Nastran Dynamic Response**	NX Nastran Dynamic Response provides an advanced suite of tools aimed at providing users with a flexible tool to analyze the response of models that are subjected to loads that vary with time or frequency. As such NX Nastran Dynamic Response includes a comprehensive range of response simulation capabilities; normal modes analysis and complex eigenanalysis, frequency &, transient response analysis, Accoustic analysis, response and shock spectrum analysis, component mode synthesis and random vibration analysis. In addition it can be effectively coupled with other analysis types such as Superelements, Non-linear analysis, design sensitivity and optimization. These solution types can be leveraged for a number of advanced simulation capabilities to analyze more complex phenomena, such as control systems, coupled fluid/structures, Gyroscopic and Coriolis effects and transfer functions for example.
NXN110	**NX Nastran Desktop**	NX Nastran add-on to licenses of NX Advanced FEM or I-deas MasterFEM. It includes a Nastran Translator. NX Nastran Desktop Basic is the base offering of NX Nastran and provides the underlying foundation product for simulation solution using NX Nastran. It supports a range of commonly used engineering simulations: Linear Static Structural Analysis, Normal Modes for Vibration, Structural Buckling, Steady State and Transient Heat Transfer (linear and non linear), and Basic Structural Nonlinear. It also includes capabilities such as inertia relief, composites modeling, and spot weld elements. The covered NX Nastran Solution sequences include: 101, 103, 105, 106, 114, 115, 116, 129, 153 and 159.
NXN112	**NX Nastran Desktop Advanced**	NX Nastran Desktop Advanced combines a standard set of more advanced, add-on tools. As such it builds upon the NX Nastran solution and is ideal for customers who have a need for a more advanced solver solution that is able to fit within any product performance simulation process. Over and above the basic level, the advanced level is able to provide state of the art solutions for more advanced engineering simulation. Consequently it provides support for Dynamic analysis, and Aero-Elasticity. In addition to these additional engineering disciplines, more advanced capabilities are included provide users with solution flexibility with DMAP and Super-Elements. The covered NX Nastran Solution sequences include: 107, 108, 109, 110, 111, 112, 118, 144, 145, 146, and 187.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
Solid Edge Items		
SE289-ENG	**Solid Edge Classic - Node Locked**	Solid Edge is a complete hybrid 2D/3D CAD system that uses synchronous technology for accelerated design, faster change, and improved imported reuse, Rapid Blue - a series of unique capabilities for robust complex shape creation, a user interface that makes Solid Edge the easiest to adopt of all mechanical CAD products. Fully integrated design management with Insight, using standard Windows technology. Embedded assembly and BOM management, revisioning, release processes, and collaboration tools. Also includes Simulation Express for part and sheet metal analysis, integrated machinery library, engineering reference for creating functionally accurate components using proven engineering calculations, advanced photo rendering , process specific workflows for sheet metal, frames, weldments, plastic and cast parts. Assembly tools that make it practical to work with large assemblies. Advanced tools for 2D drawing creation, including workflows to transition smoothly from 2D to 3D, detailing and automatic dimensioning controls that comply with ISO, ANSI, BSI, UNI, DIN, ESKD and JIS.
SE290-ENG	**Solid Edge Classic - Floating**	Solid Edge is a complete hybrid 2D/3D CAD system that uses synchronous technology for accelerated design, faster change, and improved imported reuse, Rapid Blue - a series of unique capabilities for robust complex shape creation, a user interface that makes Solid Edge the easiest to adopt of all mechanical CAD products. Fully integrated design management with Insight, using standard Windows technology. Embedded assembly and BOM management, revisioning, release processes, and collaboration tools. Also includes Simulation Express for part and sheet metal analysis, integrated machinery library, engineering reference for creating functionally accurate components using proven engineering calculations, advanced photo rendering , process specific workflows for sheet metal, frames, weldments, plastic and cast parts. Assembly tools that make it practical to work with large assemblies. Advanced tools for 2D drawing creation, including workflows to transition smoothly from 2D to 3D, detailing and automatic dimensioning controls that comply with ISO, ANSI, BSI, UNI, DIN, ESKD and JIS.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
SE290A-ENG	**Solid Edge Classic - Floating - Add on L...**	Solid Edge is a complete hybrid 2D/3D CAD system that uses synchronous technology for accelerated design, faster change, and improved imported reuse, Rapid Blue - a series of unique capabilities for robust complex shape creation, a user interface that makes Solid Edge the easiest to adopt of all mechanical CAD products. Fully integrated design management with Insight, using standard Windows technology. Embedded assembly and BOM management, revisioning, release processes, and collaboration tools. Also includes Simulation Express for part and sheet metal analysis, integrated machinery library, engineering reference for creating functionally accurate components using proven engineering calculations, advanced photo rendering , process specific workflows for sheet metal, frames, weldments, plastic and cast parts. Assembly tools that make it practical to work with large assemblies. Advanced tools for 2D drawing creation, including workflows to transition smoothly from 2D to 3D, detailing and automatic dimensioning controls that comply with ISO, ANSI, BSI, UNI, DIN, ESKD and JIS.
SE304-ENG	**Solid Edge XpresRoute - Node Locked**	Solid Edge XpresRoute is an integrated add-on package that rapidly routes and models pipes and rigid or flexible tubing. The XpresRoute module helps you quickly define paths between assembly components, define component properties, and automatically create a 3D solid model of the pipe or tube. For piping systems, 3D pipes, fittings and components are automatically positioned and correctly oriented upon population. All routed systems are dynamically associative so that they automatically adjust when changes are made in related parts.
SE306-ENG	**Solid Edge XpresRoute – Floating**	Solid Edge XpresRoute is an integrated add-on package that rapidly routes and models pipes and rigid or flexible tubing. The XpresRoute module helps you quickly define paths between assembly components, define component properties, and automatically create a 3D solid model of the pipe or tube. For piping systems, 3D pipes, fittings and components are automatically positioned and correctly oriented upon population. All routed systems are dynamically associative so that they automatically adjust when changes are made in related parts.
SE330-ENG	**Solid Edge/CATIA V4 Translator Node Locked**	Solid Edge/Catia V4 Translator Node Locked The Catia V4 Translator provides bi-directional translation capabilities to open and write Catia V4 files. The translator is capable of reading CATIA 4.1.9 and 4.2.X [up to 4.2.4] and will write CATIA 4.1.9.
SE331-ENG	**Solid Edge/CATIA V4 Translator Floating**	Solid Edge/Catia V4 Translator Floating The Catia V4 Translator provides bi-directional translation capabilities to open and write Catia V4 files. The translator is capable of reading CATIA 4.1.9 and 4.2.X [up to 4.2.4] and will write CATIA 4.1.9.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
SE360-ENG	**Solid Edge Wire Harness Design Node Locked**	Solid Edge Wire Harness design provides integration between popular electrical circuit design systems and Solid Edge. A dedicated process-driven environment for the efficient creation, routing and organization of wires, cables and bundles in a Solid Edge assembly allows electrical and mechanical design teams to collaborate more closely and create a complete digital mock-up.
SE361-ENG	**Solid Edge Wire Harness Design Floating**	Edge Wire Harness design provides integration between popular electrical circuit design systems and Solid Edge. A dedicated process-driven environment for the efficient creation, routing and organization of wires, cables and bundles in a Solid Edge assembly allows electrical and mechanical design teams to collaborate more closely and create a complete digital mock-up.
SE377N	**Solid Edge/CATIA V5 Translator Node Locked**	The Catia V5 Translator provides bi-directional translation capabilities to open and write Catia V5 files. The translator is capable of reading up to CATIA v5 R19 and will write CATIA v5 R14 files. Note: In order to implement this translator, Solid Edge ST MP 2 or higher must be installed.
SE377F	**Solid Edge/CATIA V5 Translator Floating**	The Catia V5 Translator provides bi-directional translation capabilities to open and write Catia V5 files. The translator is capable of reading up to CATIA v5 R19 and will write CATIA v5 R14 files. Note: In order to implement this translator, Solid Edge ST MP 2 or higher must be installed.
SE388N-ENG	**Solid Edge Premium - Node Locked**	Powerful 3D CAD CAE and Routing software in one product. This product includes all the capabilities of Solid Edge Classic plus the additional capabilities of: • Solid Edge Simulation • Solid Edge XpresRoute • Solid Edge Wire Harness Design
SE388F-ENG	**Solid Edge Premium - Floating**	Powerful 3D CAD CAE and Routing software in one product. This product includes all the capabilities of Solid Edge Classic plus the additional capabilities of: • Solid Edge Simulation • Solid Edge XpresRoute • Solid Edge Wire Harness Design
SE388A-ENG	**Solid Edge Premium - Floating Add-On**	Powerful 3D CAD CAE and Routing software in one product. This product includes all the capabilities of Solid Edge Classic plus the additional capabilities of: • Solid Edge Simulation • Solid Edge XpresRoute • Solid Edge Wire Harness Design

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX Miscellaneous Items		
A724	**Imageware Polygon Modeling**	The Imageware product category provides application driven solutions in the key areas of all aspects of freeform product design. This unprecedented technology enables customers to design, reverse engineer, accurately build and fully inspect high-quality, freeform products in less time. Recent product releases and an increased focus on Advanced Surfacing, 3D Inspection, Reverse Engineering and Polygon Modeling have enabled an intuitive, flexible design environment for design, engineering and manufacturing of complex products
A728	**Imageware Pro/Engineer Databridge**	The Imageware product category provides application driven solutions in the key areas of all aspects of freeform product design. This unprecedented technology enables customers to design, reverse engineer, accurately build and fully inspect high-quality, freeform products in less time. Recent product releases and an increased focus on Advanced Surfacing, 3D Inspection, Reverse Engineering and Polygon Modeling have enabled an intuitive, flexible design environment for design, engineering and manufacturing of complex products The Imageware(tm)/Pro/ENGINEER Bi-directional Databridge provides an easy-to-use method for reading and writing Imageware '.imw' files from within the Pro/ENGINEER product. By adding menus into the user's existing Pro/E installation and using Pro/E open architecture, the Imageware file can be created and read. Surfaces and Datum curves are supported with the databridge.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
A738	**Imageware Evaluation**	Imageware Evaluation contains tools for assessing overall product quality through visual and mathematic evaluation. Efficient continuity management tools maintain relationships between entities for positional, tangent, and curvature conditions as well as deviation checking tools to evaluate precise differences between entities. This eliminates tedious manual work while maintaining the natural, creative workflow. Real-time diagnostic tools provide immediate analysis of the quality of geometry for manufacture — emphasizing the aesthetic qualities of a component model. Environment and texture mapping are extensively used to predict, visualize, and reflect realistic testing scenarios, essentially reducing or eliminating the need for expensive physical models or prototypes. These tools are instrumental in visually identifying surface flow properties and highlights used to detect surface flaws, deviations, and imperfections. Additionally, validation tools include checking for machining capability, parting lines, and surface gaps — useful in identifying design flaws before data is released for downstream processes. Imageware Evaluation is an ideal complement to an existing mechanical CAD installation, providing tools to satisfy a very high level of quality and craftsmanship. Models from the native system can be transferred into Imageware to fully evaluate and interrogate overall model quality. This effectively extends functional capability, enhancing the performance and time to market development cycle.
A740	**Imageware Surfacing**	Imageware Surfacing provides a powerful and intuitive set of curve and surface creation and editing functions for complex freeform shape design. This includes a host of surface creation commands for sweeping, lofting, and for developing complex shapes not possible in other CAD products. The creation tools are further extended with a set of functions for filleting, flanging, and surface offsetting. Essential to design is Imageware's ability to control curve character and surface flow by means of direct editing of control points. To complement the control point editing tools, a completely new 3D constraint solver for curve networks and an associativity framework (or real-time history solver) for surface creation operations has been implemented. These tools capture relationships between entities which result in more automated updates to geometry upon editing — improving the designers efficiency. Imageware Surfacing also provides highly functional control for surface matching. This allows for continuity of neighboring surface patches at surface edges or to the interior of a surface for position, tangency, or curvature. Wide ranges of matching options are available providing the ultimate control of 3D geometry. In some instances, design requires the use of Bezier models (automotive Class A production quality surfaces) that utilize higher order geometry. Imageware Surfacing enables up to order 21 (surfaces) and ensures that the design, engineering, and manufacturing criteria are respected throughout the surfacing process.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
A742	**Imageware Point Processing**	Imageware Point Processing contains tools for evaluating and manipulating collected or measured point data. Imageware accepts data from most optical (camera) scanners, coordinate measuring (CMM) systems, laser scanners, X-ray scanners, and finite element analysis results — without placing limits on point count or file size. The manipulation of point data is typically the first task for reverse engineering or inspection, so it is important for users to have complete freedom to choose from a number of tools to inspect, modify, and clean up the measured data. Users can sort, order, and arrange collected data in the most suitable fashion for downstream use. Point display, sample density, and visualization of the data are only a mouse-click away and at user discretion. Multiple scan datasets can be combined as one, then cut, trimmed, or modified for specific data setup. A unique benefit of working with collected data is that the user is in full control over what gets created, and when, where, and how it is used. Cross sections can be created automatically or specified, interactively, by the user. Additional functionality like global modeling of collected data (for offsetting) exists to aid users in up-front feasibility studies. With more than 10 years experience in the point processing field, Imageware has proven product maturity with robust capabilities optimized especially for handling true design capture and for working with massive dataset collection.
A743	**Imageware Inspection**	Imageware Inspection is aimed at metrology and 3D inspection of complex digital shapes. It provides versatile and easy-to-use 3D data analysis for comparing physical measured components to nominal CAD data. Users can import reference data or discrete 3D coordinate measurements from physical parts and directly compare measured points to surfaces, points to points, or points to STL data. The data can be automatically oriented and aligned for the greatest possible accuracy required. Once aligned, a host of capabilities compare the qualitative and numerical differences between the component part and scan. GD&T capability is provided for point clouds along with a range of annotation tools for documentation and reporting. Comparison results are reported in color-coded deviation maps, both graphical and textural. These color maps provide a strong visual cue pinpointing the main sources of error and the trends of deviation over the entire part. The ability to visualize design and manufacture concerns prior to tooling commitment drives dramatic reduction in time to manufacturing. Additionally, analysis query functions provide detailed numerical reports for selected measurement points or localized regions that can be used to globally communicate critical manufacturing information.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
EFI40312NU	**Assembly Process Designer Bundle**	Assembly Process Designer is a package of several components offering the most robust assembly planning environment available. The package enables manufacturing assembly planning in both the Teamcenter environment and the Process Designer environment. With Lifecycle representations, which is included, manufacturing data authored in Teamcenter can be extracted for analysis in Process Designer and returned for enterprise-wide collaboration. Both environments provide world-class planning tools which associate product, process, resources and plant information.
EFI40320	**E-factory Part Manufacturing Planner User Module**	This module allows users to define a process plan for part manufacturing operations. This includes the definition and management of process, plant, resource structures, and their relationships to each other and product data. The contents of this module are as follows: • Creating process and operations7 Creating work areas7 • Associate resources to workareas and process/operations • Associate product to process/operations. • Creating/viewing activities under operations. • Generating reports. • Work instructions. • Form viewer, import, export
EFI40324	**E-factory Manufacturing Structure Viewer User Module**	This provides a view-only application to interrogate manufacturing data structures. Users will have access to view manufacturing data and relationships, but not have access to create, edit, or delete any manufacturing items or relationships between items. Users will be able to • Create, view, and store reports. • Create and edit attachments • Filter based on configuration if the module is purchased
EFI40335	**E-factory Plant Structure Editor User Module**	Lifecycle Representations Access enables a named user to view, query, and navigate multiple lifecycle representations of products defined in Teamcenter. To utilize Lifecycle Representations, an access license is required for every Teamcenter Engineering user including those that will also have author licenses for the module. The Lifecycle Representations module provides the ability to associatively define multiple representations for different lifecycle stages or uses for a product or process. The capabilities include tools to create mapping between the multiple representations and to compare the consumption of end items in each. The applications enabled with Lifecycle Representation include Collaboration Context and the Manufacturing Structure Editor.
EFI40440	**E-factory Resource Manager user module**	This module allows users to define resource components and resource assemblies. These resources can then be classified in the In-Class system of Teamcenter Engineering.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
EFI40505	**E-factory Manufacturing Server Extension**	The E-factory Manufacturing Server Extension (EFI40505) is a Teamcenter server module. This module provides the ability to create manufacturing data objects, and build the complex relationships between these manufacturing objects and product data. The primary purpose for this module is to provide the manufacturing server component for the manufacturing client applications for existing Teamcenter Engineering customers.
FC11529	**Factory Analysis Floating Bundle**	The Factory Analysis software suite contains FactoryFLOW and FactoryPLAN. FactoryFLOW is an integrated material handling system in a visual environment used to analyze factory layouts (in AutoCAD format). FactoryFLOW is used for optimizing layouts based on material flow distances, frequency, and costs; using part routing information, material storage needs, material handling equipment specifications, and part packaging (containerization) information. FactoryPLAN is also included as a tool to provide further layout analyses and layout optimization.
NX30100	**NX Check Mate Author**	This product gives the user access to the Check-Mate Authoring interface. This interface facilitates creation of customized checks through the use of Knowledge Fusion. Check-Mate Authoring also provides the capability of creating custom profiles (a collection of specific checks) to be run by specific groups/users
NX30111	**NX Advanced Sheet Metal Design**	NX Advanced Sheet Metal contains tools for designers who model complex parts (non straight brake parts). Complex parts might contains flanges along curved or complex faces which cannot be formed without material deformation (stretching, thinning, wrinkling etc.). NX Advanced Sheet Metal includes features for designing both straight brake and complex formed parts. These features include the Advanced Flange, Bridge Bend, Unform, Reform and Metaform. Advanced Flange is used to create flanges to match an existing complex surface with option to infer length from the reference surface. Unform provides the ability to unform these Advanced flanges so that user can add cutout across bends or other features. Reform provides the ability to reform the advanced flanges back to the formed state. Metaform provides the ability to Unform complex geometries including non sheet metal parts to an alternate shape. Metaform allows to go from Formed to Flat, Flat to Formed and Formed to Formed shapes. Bridge Bend feature allows user to quickly join two separate sheet metal bodies with a bridge using different bridge types.
NX30112	**NX Fabric Flattener**	The NX Fabric Flattener is designed to generate flat patterns for woven or unidirectional fabric materials. It can be used to flatten composite laminate plies, or any materials that conform to the theoretical models for woven or unidirectional fabrics. Two solvers are provided which can process multiple surfaces, cut curves, arbitrary or infinite stock (the raw material from which the final surface is created) and additional curves and points.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX30113	**NX Human Modeling**	NX Human Modeling allows designers to create feature models of human beings and is based on technology provided by E-factory Jack. These human models can then be used to explore and verify how people interact with product designs all within the NX environment.
NX30114	**NX Human Modeling Posture Prediction**	NX Human Modeling Posture Prediction is aimed specifically at the automotive industry. It allows users to position a model of a human driver, front passenger, or rear passenger in a statistically accurate seated position inside an automotive vehicle. The Posture Prediction tool is based on two key databases of information collected in the University of Michigans ASPECT (Automotive Seat Packaging Evaluation and Comparison Tool) Program. These ensure that when inserted into your vehicle, the person is positioned correctly according to the layout of the that vehicle and the figures anthropometry.
NX30117	**NX Aerospace Sheet Metal**	NX Aerospace Sheet Metal provides a focused environment for modeling the most common types of sheet metal parts in airframes. The application includes features specific to aerospace such as flanges built to and associated with mold line surfaces and joggles. The application also provides easy access to all features required to support a streamlined workflow for producing formed frames parts (for instance, airframe support ribs). Once a part is created it can be automatically unformed to easily create flat patterns that follow aerospace drawing standards. Using NX Aerospace Sheet Metal each formed frame part can be modeled and modified in a fraction of the time compared to model the parts with NX Solid Modeling alone. Given the large number of formed framed parts in a typical airframe, this product provides significant cost savings and reduced design time.
NX30121	**NX Electro-Mechanical Routing**	A product that combines Electrical and Mechanical Routing under one product.
NX30122	**NX Weld Assistant**	Weld Assistant (NX Weld) is designed to model material joining through fusion welds, mechanical connections, and solid state connections. This includes edge, groove, fillet, plug, spot, and seam welds; as well as beads, tape, dollops, and clinches. NX Weld also provides information on the welds and connections to help perform Finite Element analysis of the assembled product. Currently, NX Weld does not model brazing, bolting, or riveting. NX Weld automatically creates appropriate 2D drafting documentation and annotation based upon the 3D weld feature.
NX30123	**NX Electrode Design**	NX Electrode Design is a linear, time-saving, step-by-step solution that streamlines the process of designing and producing electrodes. This solution helps automate and effectively design, validate, document, manufacture, and manage the entire EDM process from design through production.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX30125	**NX Routing Electrical**	NX Routing - Electrical provides all the tools needed to route electrical wiring in a product assembly and specify typical mechanical parts and supporting equipment such as connectors, conduit, and raceways. The software imports a list of wiring descriptions for connections between electrical devices. The connection list may be created from a 2-D logical design application such as NX Schematics. Routing - Electrical automatically finds paths, which have been routed between the devices, and assigns the wire descriptions to the path segments. The wire descriptions are used to compute bundle diameters and to create solid bundle models. Actual wire lengths and diameters may be automatically added to the connection list for feedback to upstream ECAD applications or downstream to manufacturing applications. Routing - Electrical also identifies minimum bend radius violations and produces design and manufacturing documentation such as formboard drawings. Capabilities for specifying conduit provide over 100 different part families and 1,900 example part specifications for conduit fittings and stock. There is also the ability to specify raceways with over 20 different part families and 8,000 example part specifications for channel fittings and stock. The user may need to add part specifications for their specific parts.
NX30126	**NX Die Validation**	NX Die Validation allows the die designers to check the function of die assemblies with respect to the collision free operation and is developed based on the technology available in Tecnomatix Die Validation tool. The users will be able to add press model, attach die components to the press models, and can define cams by identifying the driver and slide and simulate the motions of the entire Die assembly all within the NX environment.
NX30127	**NX WAVE Control**	This module facilitates the parametric assembly modeling of complex systems. It enables automatic propagation of change in virtually every engineering process including conceptual design, design for manufacturing, and manufacturing 'part in process'. This product enables companies to identify critical design variables that drive product design, and then capture them in an associative control structure. Changes to the key design variables automatically update the top level system and all subassemblies and components. NX WAVE Control facilitates a high level, systems oriented, design process that enables concurrent engineering and promotes design re-use and standardization of the design process.
NX30133	**NX Issue Management**	The NX Issue Management license adds interface inside NX for integrating directly with Teamcenter-based Issue Management capabilities. The tool enables NX users to directly create, edit, and manage Teamcenter Community Visual Issues lists. NX Issue Management also enables much simpler workflows for associating 2D images, NX Bookmarks, Check-Mate results, and a variety of other files with the Visual Issues.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
NX30138	**NX Integration to Geolus**	NX Integration to Geolus delivers the ability for NX designers to dynamically search and retrieve parts that have been indexed into the Geolus database. Besides the interactive operation in NX, an external tool provides simple administration functions. The administration tool is only offered in command line mode where the input is specified by file. One NX Integration to Geolus license is required for each concurrent NX license (1-to-1 concurrency ratio).
NX30140	**HD3D Visual Reporting**	HD3D Visual Reporting allows users to set up and edit visual reports based on important product and process criteria, and apply those reports on to any assembly in an NX session. Report criteria may be derived from information inside of NX or stored in Teamcenter. Visual Reports can be generated "on the fly" giving immediate feedback to a designer on critical product and process information. Alternatively, the Visual Report can be authored, published and reused across the team allowing companies to build libraries of standard reports. NX graphically shows the results of the report or query using a variety of techniques including highlighting, color coding and graphing/charting. Users dynamically interact in real-time with the applied visual report, for further analysis and drill-down.
NXN001	**NX Nastran Basic**	NX Nastran Basic is the base offering of NX Nastran and provides the underlying foundation product for simulation solution using NX Nastran. It supports a range of commonly used engineering simulations: Linear Static Structural Analysis, Normal Modes for Vibration, Structural Buckling, Steady State and Transient Heat Transfer (linear and non linear), and Basic Nonlinear. It also includes capabilities such as inertia relief, composites modeling, and spot weld elements. The covered NX Nastran Solution sequences include: 101, 103, 105, 106, 114, 115, 116, 129, 153 and 159. The NX Nastran Basic license can also be used in I-deas to run the legacy I-deas Model Solution solver for linear structural, thermal and optimization analysis.
NXN002	**NX Nastran Advanced**	NX Nastran Advanced brings together a standard set of more advanced, add-on tools to the NX Nastran product suite, as a standard bundle. It combines a set of the more often used standard add-on products available from Siemens. As such it builds upon the NX Nastran solution and is ideal for customers who have a need for a more advanced solver solution that is able to fit within any product performance simulation process. Over and above NX Nastran, NX Nastran Advanced is able to provide state of the art solutions for more advanced engineering simulation. Consequently it provides support for Dynamic analysis, Aero-Elasticity, DMAP, and super elements. In addition to these advanced capabilities, the bundle also provides support for distributed parallel processing (DMP). The covered NX Nastran Solution sequences include: 107, 108, 109, 110, 111, 112, 118, 144, 145, 146, and 187.

SOFTWARE PART NUMBER & NAME		DESCRIPTION
TCM55012	**NX CAM Embedded Client**	The NX CAM Embedded Client is an extension to the NX Embedded Client. NX CAM Embedded Client provides a CAM system integration between Teamcenter and the NX CAM product. It allows Teamcenter users to invoke NX CAM from Teamcenter and manage NX CAM data in Teamcenter. It also supports access to Teamcenter via the NX CAM product user interfaces enabling functionality such as creating new CAM setups, access to existing CAM setups, creation of CAM Setup Templates, search and retrieval of cutting tools and machine tools from Teamcenter and managing of NX CAM output files like ptp, clsf and shop doc in Teamcenter. The number of Integration for NX CAM licenses purchased should be equal to the number of NX CAM product licenses. Note that NX Mach products include the NX CAM Embedded Client. This product is only for non-MACH NX products. to allow management of NX CAM data in the NX Manager / Teamcenter environment.
UG11274	**NX Machine Wizard Builder**	The Machining Wizard Builder provides authoring tools to construct wizards which guide users through NC programming tasks in a step-by-step manner. Any NC user can run these wizards, once created.
UG11570	**ISV-Simulation**	ISV - Simulation provides an out-of-the-box capability to do machine simulation and collision detection using a set of pre-defined generic machine tools. No Machine Tool Builder capabilities are provided and limited collision detection functionality is included.
UG11580	**ISV- Advanced Simulation**	ISV Advanced Simulation includes all the functionality available in ISV - Simulation plus the capability to construct user defined machine tools and user defined controller configurations. UGS Corp Solution library mechanisms (ASCII, Resource Manager, Genius) to store, search, and retrieve user defined machine tools is supported. It includes complete collision detection capabilities and can simulate tool paths and/or machine tool programs (G&M code).
UG30106	**NX Open Toolkits Author**	The NX Open Toolkits Author license provides the libraries, documentation, and utility tools required to create custom applications using the NX Open C++, NX Open for .NET, or NX Open for Java Application Programming Interface (API). NX Open GRIP author is not included. Custom applications built from any NX Open API do not require runtime licenses to execute. NX Open GRIP is an exception; GRIP programs require the GRIP Runtime license. However, successful execution of a custom program is dependent on the availability, and reservation of, appropriate feature licenses, excluding GRIP programs.
VC1005	**Direct NX to VERICUT Geometry Interface**	The direct geometry interface enables surfaced or solid models of "as-designed" parts, complex stock, or fixtures to be directly transferred from NX to Vericut. This interface eliminates the need to use stereo lithography files as an intermediate form for geometry transfers.

Special Item No: 132-33 Perpetual Software Licenses

SOFTWARE PRODUCT PRICE LIST

Product ID	Product Title	GSA Price
TeamCenter		
EFI24051	Lifecycle Representations	5,388.11
EFV12015	Factory Mockup Bundle	5,388.11
FC10014	FactoryCAD Floating	8,978.84
TC10101	Teamcenter Author	987.35
TC10102	Teamcenter Consumer	465.47
TC10201	Content Management Author	1,162.66
TC10202	Content Management Access	28.21
TC10211	Records Management Author	451.36
TC10212	Records Management Access	62.47
TC10221	Research Knowledge Management Author	349.60
TC10222	Research Knowledge Management Access	59.44
TC10231	Change Management Author	697.19
TC10232	Change Management Access	62.47
TC10405	Teamcenter Open (SDK)	8,978.84
TC10406	Global Services CPU Capacity	10,327.88
TC10409	STEP AP 203/214 Translator	4,787.64
TC1DOTC	Teamcenter Deployment	-
TC20620	Visualization Mockup	2,079.48
TC20705	Teamcenter Visualization & Illustration	1,221.09
TC20706	Visualization Analysis	1,946.49
TC20707	Visualization Animation Creation	1,046.79
TC21200	Community Collaboration	349.60
TC21205	Community Collaboration Server	-
TC30101	Requirements Management Author (Unified)	1,277.51
TC30101R	Requirements Management Author (Standalone)	1,277.51
TC30102	Requirements / Systems Architect Access (Unified)	115.86
TC30102R	Requirements / Systems Architect Access (Standalone)	115.86
TC30301	Program Execution Management Author	697.19
TC30302	Program Execution Management Access	62.47
TC30401	Classification Author	451.36
TC30701	Product Configuration Author	2,245.72

SOFTWARE PRODUCT PRICE LIST

Product ID	Product Title	GSA Price
TC30702	Product Configuration Access	62.47
TC30711	Lifecycle Representations Author	2,178.22
TC30712	Lifecycle Representations Access	59.44
TCG24050	Lifecycle Representations Access - Named User	147.10
TCG24051	Lifecycle Representations Author - Named User	2,245.72
TCM24804	Teamcenter Mfg Documentation	1,258.37
TCM55000	Teamcenter Mfg Access	141.05
TCM55001	Teamcenter Mfg Assembly Author	6,770.40
TCM55010	Teamcenter Mfg Resource Manager	598.46
TN70010NU	Assembler on Teamcenter	3,590.73
TN70030C	Process Simulate Human Concurrent	13,075.34
TN70030NU	Process Simulate Human Named User	6,736.15
TN70031NU	Process Simulate Human Advanced (Jack)	4,488.41
TN70032NU	Process Simulate Motion Capture	17,433.78
TN70070NU	Auto Path Planner for PS on TC	7,182.47
TN75005	Plant Simulation Professional	20,948.95
TN75050	Plant Simulation Interface Package	2,394.83
TN75060	Plant Simulation SDX Interface	3,590.73
TN75065	Plant Simulation 3D Visualization	2,394.83
TN75070	Plant Simulation Gantt Chart	2,394.83
TN75085	Plant Simulation Assembly Library	5,388.11
TN85005NU	Process Simulate on Teamcenter	8,978.84
TNQ1014	CMM Inspection Programming Professional Node Locked	17,955.67
TNQ1014C	CMM Inspection Programming Professional Concurrent	21,546.40
NX Mach CAD		
NX10101	NX Mach Designer - Node Locked	4,231.50
NX10105	NX Mach Power Drafting	3,100.08
NX10106	NX Power Drafting	2,817.98
NX11100	NX Mach 1 Design (Node Locked)	5,585.58
NX11110	NX Mach 1 Design (Floating)	6,973.92
NX12100	NX Mach 2 Product Design	8,776.33
NX13100	NX Mach 3 Product Design	11,797.83
NX30142	NX Ship Design	8,978.84

SOFTWARE PRODUCT PRICE LIST

Product ID	Product Title	GSA Price
NX MACH CAM		
NX10210	NX CMM Inspection Programming	14,105.00
NX11430	Mach 1 CAM Foundation	564.20
NX12440	Mach 2 CAD/CAM Turning Foundation	5,359.90
NX12450	Mach 2 CAD/CAM Milling Foundation	9,309.30
NX12460	Mach 2 CAM-only 5 Axis Machining	8,801.52
NX13430	Mach 3 Total Machining	16,926.00
NX13440	Mach 3 Advanced 5 Axis Machining	15,346.24
NX30408	NX Turning Add-on	1,974.70
NX30409	NX 5 Axis Machining Add-on	2,821.00
NX30431	NX Wire EDM Add-on	1,128.40
NX30432	NX 2.5 Axis Milling Add-on	1,692.60
NX30433	NX 3 Axis Milling Add-on	2,821.00
NX30434	NX NC Simulation Add-on	3,103.10
NX30601	NX CATIA V4 Interface (Translator)	2,993.28
NX30604	NX CATIA V5 Interface (Translator)	6,163.89
FEMAP and NASTRAN		
E002	FEMAP (Node Locked)	4,160.98
E004	FEMAP (Floating)	5,356.88
NXN004	NX Nastran Dynamic Response	4,787.64
NXN110	NX Nastran Desktop	8,978.84
NXN112	NX Nastran Desktop Advanced	8,978.84
Solid Edge		
SE289-ENG	Solid Edge Classic - Node Locked	3,100.08
SE290-ENG	Solid Edge Classic - Floating	3,156.50
SE290A-ENG	Solid Edge Classic - Floating - Add on L...	3,156.50
SE304-ENG	Solid Edge XpresRoute - Node Locked	561.18
SE306-ENG	Solid Edge XpresRoute - Floating	1,012.54
SE330-ENG	Solid Edge/CATIA V4 Translator Node Locked	279.08
SE331-ENG	Solid Edge/CATIA V4 Translator Floating	504.76
SE360-ENG	Solid Edge Wire Harness Design Node Locked	561.18
SE361-ENG	Solid Edge Wire Harness Design Floating	1,012.54

SOFTWARE PRODUCT PRICE LIST

Product ID	Product Title	GSA Price
SE377N	Solid Edge/CATIA V5 Translator Node Locked	2,817.98
SE377F	Solid Edge/CATIA V5 Translator Floating	3,382.18
SE388N-ENG	Solid Edge Premium - Node Locked	4,454.16
SE388F-ENG	Solid Edge Premium - Floating	4,510.58
SE388A-ENG	Solid Edge Premium - Floating Add-On	4,510.58
NX Miscellaneous Items		
A724	Imageware Polygon Modeling	2,993.28
A728	Imageware Pro/Engineer Databridge	2,993.28
A738	Imageware Evaluation	2,993.28
A740	Imageware Surfacing	5,986.57
A742	Imageware Point Processing	2,993.28
A743	Imageware Inspection	5,986.57
EFI40312NU	Assembly Process Designer Bundle	14,962.38
EFI40320	E-factory Part Manufacturing Planner User Module	4,967.98
EFI40324	E-factory Manufacturing Structure Viewer User Module	598.46
EFI40335	E-factory Plant Structure Editor User Module	598.46
EFI40440	E-factory Resource Manager user module	598.46
EFI40505	E-factory Manufacturing Server Extension	5,986.57
FC11529	Factory Analysis Floating Bundle	13,467.25
NX30100	NX Check Mate Author	7,182.47
NX30111	NX Advanced Sheet Metal Design	2,993.28
NX30112	NX Fabric Flattener	1,195.90
NX30113	NX Human Modeling	3,590.73
NX30114	NX Human Modeling Posture Prediction	5,388.11
NX30117	NX Aerospace Sheet Metal	11,972.12
NX30121	NX Electro-Mechanical Routing	15,324.08
NX30122	NX Weld Assistant	2,394.83
NX30123	NX Electrode Design	1,675.47
NX30125	NX Routing Electrical	10,175.75
NX30126	NX Die Validation	6,967.87
NX30127	NX WAVE Control	11,851.22
NX30133	NX Issue Management	140.04
NX30138	NX Integration to Geolus	141.05

SOFTWARE PRODUCT PRICE LIST

Product ID	Product Title	GSA Price
NX30140	HD3D Visual Reporting	2,253.78
NXN001	NX Nastran Basic	14,962.38
NXN002	NX Nastran Advanced	14,962.38
TCM55012	NX CAM Embedded Client	598.46
UG11274	NX Machine Wizard Builder	3,590.73
UG11570	ISV-Simulation	1,136.46
UG11580	ISV- Advanced Simulation	2,930.82
UG30106	NX Open Toolkits Author	11,972.12
VC1005	Direct NX to VERICUT Geometry Interface	476.55

Special Item No: 132-34 Maintenance of Software

SOFTWARE MAINTENANCE PRICE LIST

Product ID	Product Title	GSA Price
TeamCenter		
EFI24051 - M	Lifecycle Representations	1,604.95
EFV12015 - M	Factory Mockup Bundle	1,604.95
FC10014 - M	FactoryCAD Floating	2,011.98
TC10101 - M	Teamcenter Author	294.19
TC10102 - M	Teamcenter Consumer	139.04
TC10201 - M	Content Management Author	345.57
TC10202 - M	Content Management Access	8.06
TC10211 - M	Records Management Author	135.01
TC10212 - M	Records Management Access	19.14
TC10221 - M	Research Knowledge Management Author	104.78
TC10222 - M	Research Knowledge Management Access	18.14
TC10231 - M	Change Management Author	207.55
TC10232 - M	Change Management Access	19.14
TC10405 - M	Teamcenter Open (SDK)	2,674.91
TC10406 - M	Global Services CPU Capacity	3,077.91
TC10409 - M	STEP AP 203/214 Translator	1,426.62
TC1DOTC - M	Teamcenter Deployment	-
TC20620 - M	Visualization Mockup	619.61
TC20705 - M	Teamcenter Visualization & Illustration	363.71
TC20706 - M	Visualization Analysis	580.32
TC20707 - M	Visualization Animation Creation	312.33
TC21200 - M	Community Collaboration	104.78
TC21205 - M	Community Collaboration Server	-
TC30101 - M	Requirements Management Author (Unified)	380.84
TC30101R - M	Requirements Management Author (Standalone)	380.84
TC30102 - M	Requirements / Systems Architect Access (Unified)	34.26
TC30102R - M	Requirements / Systems Architect Access (Standalone)	34.26
TC30301 - M	Program Execution Management Author	207.55
TC30302 - M	Program Execution Management Access	19.14

SOFTWARE MAINTENANCE PRICE LIST

Product ID	Product Title	GSA Price
TC30401 - M	Classification Author	135.01
TC30701 - M	Product Configuration Author	668.98
TC30702 - M	Product Configuration Access	19.14
TC30711 - M	Lifecycle Representations Author	648.83
TC30712 - M	Lifecycle Representations Access	18.14
TCG24050 - M	Lifecycle Representations Access - Named User	44.33
TCG24051 - M	Lifecycle Representations Author - Named User	668.98
TCM24804 - M	Teamcenter Mfg Documentation	400.99
TCM55000 - M	Teamcenter Mfg Access	42.32
TCM55001 - M	Teamcenter Mfg Assembly Author	2,017.02
TCM55010 - M	Teamcenter Mfg Resource Manager	178.33
TN70010NU - M	Assembler on Teamcenter	962.16
TN70030C - M	Process Simulate Human Concurrent	3,507.11
TN70030NU - M	Process Simulate Human Named User	1,806.45
TN70031NU - M	Process Simulate Human Advanced (Jack)	1,204.97
TN70032NU - M	Process Simulate Motion Capture	4,674.80
TN70070NU - M	Auto Path Planner for PS on TC	1,926.34
TN75005 - M	Plant Simulation Professional	4,369.53
TN75050 - M	Plant Simulation Interface Package	499.72
TN75060 - M	Plant Simulation SDX Interface	749.58
TN75065 - M	Plant Simulation 3D Visualization	499.72
TN75070 - M	Plant Simulation Gantt Chart	499.72
TN75085 - M	Plant Simulation Assembly Library	1,123.36
TN85005NU - M	Process Simulate on Teamcenter	2,407.93
TNQ1014 - M	CMM Inspection Programming Professional Node Locked	5,349.83
TNQ1014C - M	CMM Inspection Programming Professional Concurrent	6,419.79
NX Mach CAD		
NX10101 - M	NX Mach Designer - Node Locked	1,347.03
NX10105 - M	NX Mach Power Drafting	987.35
NX10106 - M	NX Power Drafting	896.68
NX11100 - M	NX Mach 1 Design (Node Locked)	1,729.88

SOFTWARE MAINTENANCE PRICE LIST

Product ID	Product Title	GSA Price
NX11110 - M	NX Mach 1 Design (Floating)	2,164.11
NX12100 - M	NX Mach 2 Product Design	2,355.54
NX13100 - M	NX Mach 3 Product Design	3,160.53
NX30142 - M	NX Ship Design	2,011.98
NX MACH CAM		
NX10210 - M	NX CMM Inspection Programming	4,488.41
NX11430 - M	Mach 1 CAM Foundation	179.34
NX12440 - M	Mach 2 CAD/CAM Turning Foundation	1,705.70
NX12450 - M	Mach 2 CAD/CAM Milling Foundation	2,962.05
NX12460 - M	Mach 2 CAM-only 5 Axis Machining	2,800.85
NX13430 - M	Mach 3 Total Machining	5,386.10
NX13440 - M	Mach 3 Advanced 5 Axis Machining	4,439.05
NX30408 - M	NX Turning Add-on	628.68
NX30409 - M	NX 5 Axis Machining Add-on	897.68
NX30431 - M	NX Wire EDM Add-on	358.67
NX30432 - M	NX 2.5 Axis Milling Add-on	539.01
NX30433 - M	NX 3 Axis Milling Add-on	897.68
NX30434 - M	NX NC Simulation Add-on	987.35
NX30601 - M	NX CATIA V4 Interface (Translator)	668.98
NX30604 - M	NX CATIA V5 Interface (Translator)	1,337.96
FEMAP and NASTRAN		
E002 - M	FEMAP (Node Locked)	1,337.96
E004 - M	FEMAP (Floating)	1,784.28
NXN004 - M	NX Nastran Dynamic Response	1,426.62
NXN110 - M	NX Nastran Desktop	2,407.93
NXN112 - M	NX Nastran Desktop Advanced	2,407.93
Solid Edge		
SE289-ENG - M	Solid Edge Classic - Node Locked	1,223.11
SE290-ENG - M	Solid Edge Classic - Floating	1,223.11
SE290A-ENG - M	Solid Edge Classic - Floating - Add on L...	1,223.11

SOFTWARE MAINTENANCE PRICE LIST

Product ID	Product Title	GSA Price
SE304-ENG - M	Solid Edge XpresRoute - Node Locked	205.53
SE306-ENG - M	Solid Edge XpresRoute - Floating	371.77
SE330-ENG - M	Solid Edge/CATIA V4 Translator Node Locked	97.73
SE331-ENG - M	Solid Edge/CATIA V4 Translator Floating	186.39
SE360-ENG - M	Solid Edge Wire Harness Design Node Locked	205.53
SE361-ENG - M	Solid Edge Wire Harness Design Floating	371.77
SE377N - M	Solid Edge/CATIA V5 Translator Node Locked	1,028.66
SE377F - M	Solid Edge/CATIA V5 Translator Floating	1,224.11
SE388N-ENG - M	Solid Edge Premium - Node Locked	1,739.95
SE388F-ENG - M	Solid Edge Premium - Floating	1,739.95
SE388A-ENG - M	Solid Edge Premium - Floating Add-On	1,739.95
NX Miscellaneous Items		
A724 - M	Imageware Polygon Modeling	668.98
A728 - M	Imageware Pro/Engineer Databridge	668.98
A738 - M	Imageware Evaluation	668.98
A740 - M	Imageware Surfacing	1,337.96
A742 - M	Imageware Point Processing	668.98
A743 - M	Imageware Inspection	1,337.96
EFI40312NU - M	Assembly Process Designer Bundle	4,458.19
EFI40320 - M	E-factory Part Manufacturing Planner User Module	1,337.96
EFI40324 - M	E-factory Manufacturing Structure Viewer User Module	161.20
EFI40335 - M	E-factory Plant Structure Editor User Module	161.20
EFI40440 - M	E-factory Resource Manager user module	161.20
EFI40505 - M	E-factory Manufacturing Server Extension	1,604.95
FC11529 - M	Factory Analysis Floating Bundle	3,018.47
NX30100 - M	NX Check Mate Author	1,604.95
NX30111 - M	NX Advanced Sheet Metal Design	668.98
NX30112 - M	NX Fabric Flattener	268.00
NX30113 - M	NX Human Modeling	802.98
NX30114 - M	NX Human Modeling Posture Prediction	1,198.93
NX30117 - M	NX Aerospace Sheet Metal	2,674.91

SOFTWARE MAINTENANCE PRICE LIST

Product ID	Product Title	GSA Price
NX30121 - M	NX Electro-Mechanical Routing	3,424.49
NX30122 - M	NX Weld Assistant	534.98
NX30123 - M	NX Electrode Design	374.79
NX30125 - M	NX Routing Electrical	2,273.93
NX30126 - M	NX Die Validation	1,557.60
NX30127 - M	NX WAVE Control	2,118.77
NX30133 - M	NX Issue Management	45.34
NX30138 - M	NX Integration to Geolus	37.28
NX30140 - M	HD3D Visual Reporting	717.34
NXN001 - M	NX Nastran Basic	4,462.22
NXN002 - M	NX Nastran Advanced	4,462.22
TCM55012 - M	NX CAM Embedded Client	178.33
UG11274 - M	NX Machine Wizard Builder	802.98
UG11570 - M	ISV-Simulation	256.91
UG11580 - M	ISV- Advanced Simulation	663.94
UG30106 - M	NX Open Toolkits Author	2,674.91
VC1005 - M	Direct NX to VERICUT Geometry Interface	107.80

Special Item No: 132-51
Information Technology (IT) Professional Services
Labor Category Descriptions

Program Manager	***CLIN 001***
Functional responsibility	Plans, directs, coordinates, and controls technical and administrative activities for an entire program. Supervises task managers in the execution of their assigned duties. Reviews and maintains quality of technical work done on the program. Makes technical judgments and provides advice on the resolution of technical problems.
Minimum education	BS in a technical field
Minimum years /general experience	10 years or more directly related experience including System engineering, requirements definition, work planning, control of budget, schedule, and task execution, contract & subcontract management, personnel management and supervision.
Task Manager	***CLIN 002***
Functional responsibility	Plans, directs, coordinates, and controls technical and administrative activities for an entire program. Reviews and maintains quality of technical work done on the program. Makes technical judgments and provides advice on the resolution of technical problems.
Minimum education	BS in a technical field
Minimum years /general experience	8 years or more directly related experience including System engineering, requirements definition, work planning, control of budget, schedule, and task execution, contract & subcontract management, personnel management and supervision.
Application Programmer I	***CLIN 003***
Functional responsibility	Analyzes functional business applications and design specifications for functional activities. Develops block diagrams and logic flow charts. Translates detailed design into computer software. Tests, debugs, and defines the computer software to produce the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency.
Minimum education	BS (computer science or related)
Minimum years /general experience	At least 4 years' applicable experience as an applications programmer on large-scale information technology systems. Knowledge of computer equipment and ability to develop complex software to satisfy design objectives.
Application Programmer II	***CLIN 004***
Functional responsibility	Analyzes functional business applications and design specifications for functional activities. Develops block diagrams and logic flow charts. Translates detailed design into computer software. Tests, debugs, and defines the computer software to produce the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency. Where necessary, supervises the efforts of other application programmers and technical staff.
Minimum education	BS (computer science or related)

Minimum years /general experience	At least 10 years' applicable experience as an applications programmer on large-scale information technology systems. Knowledge of computer equipment and ability to develop complex software to satisfy design objectives. Demonstrated ability to work independently or under only general direction.
Systems Engineer	***CLIN 005***
Functional responsibility	Oversees the design, development, and implementation of complex information technology systems. Where required, supervises the technical efforts of other systems engineers and technical personnel in achieving the objectives of the assigned task.
Minimum education	BS
Minimum years /general experience	At least 2 years' experience in the design of communications networks, ADP, or other information technology systems. Is familiar with one or more specialized engineering fields.
Engineer	***CLIN 006***
Functional responsibility	Applies engineering methods and tools to the solution of specific technical problems. Works alone or with other engineers and technical staff in the accomplishment of assigned tasks.
Minimum education	BS (engineering)
Minimum years /general experience	At least 4 years experience relevant to assigned tasks.
Documentation Specialist	***CLIN 007***
Functional responsibility	Assists technical personnel in the preparation of formal documents (e.g., specifications, data item descriptions, plans) according to established standards for such documentation. Supervises the collection, filing, distribution, and historical tracking of review comments and change proposals. Works with change control boards to ensure accurate recording of resolutions, action items, decisions, etc. Supervises the maintenance of key project baseline documentation.
Minimum education	BA
Minimum years /general experience	Is extensively experienced with general and specific documentation practices and standards appropriate to the assigned task. Is experienced and knowledgeable in the use of automated tools to prepare, update, store, and distribute technical and program documentation.
Senior Application Engineer	***CLIN 008***
Functional responsibility	Provides unique industry recognized expertise in the e-commerce and reverse engineering discipline.
Minimum education	PhD in an engineering field, or MS
Minimum years /general experience	15 years of applicable experience in engineering research and applications.
Application Engineer I	***CLIN 009***
Functional responsibility	Supports e-commerce, reverse engineering and post processing efforts in developing the design, and documentation for task at hand.
Minimum education	BS in an engineering field
Minimum years /general experience	4 years of applicable experience in reverse engineering research and applications.
Application Engineer II	***CLIN 010***
Functional responsibility	Supports e-commerce, reverse engineering and post processing efforts in developing the design, specification, and documentation for task at hand.
Minimum education	MS in an engineering field

Minimum years /general experience	8 years of applicable experience in reverse engineering research and applications.
Computer IT Programmer I	***CLIN 011***
Functional responsibility	Assists with the analysis of functional business program applications and design specifications for project activities. Sets up initial block diagrams and flow charts. Tests, debugs, and defines the computer software to produce the required Product. Prepares supporting documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency.
Minimum education	B.S. (computer science or related) or H.S. with 5 years experience
Minimum years /general experience	At least 2 years' applicable experience as an applications programmer on large-scale information technology systems. Knowledge of computer equipment and ability to develop complex software to satisfy design objectives.
Computer IT Programmer II	***CLIN 012***
Functional responsibility	Analyzes functional business program applications and design specifications for project activities. Develops block diagrams and flow charts. Translates detailed design into computer software. Tests, debugs, and defines the computer software to produce the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency.
Minimum education	B.S. (computer science or related) or H.S. with 7 years experience
Minimum years /general experience	At least 5 years' applicable experience as an applications programmer on large-scale information technology systems. Knowledge of computer equipment and ability to develop complex software to satisfy design objectives.
Computer Scientist I	***CLIN 013***
Functional responsibility	Assists with the collection of information about organizational mission and user needs, and uses this information to help develop information on system requirements. Supports enterprise-wide strategic systems planning efforts. Provides technical support in the application of software engineering techniques and automated support tools.
Minimum education	B.S. (computer science or related), or H.S. with 5 years experience
Minimum years /general experience	At least 2 years' experience in the planning, analysis, design and construction of large-scale information systems, or 5 years experience.
Computer Scientist II	***CLIN 014***
Functional responsibility	Collects information about organizational mission and user needs, and uses this information to develop information system requirements. Uses analytical and computational techniques to solve problems and make decisions in the design of information systems. Supports enterprise-wide strategic systems planning efforts. Provides technical guidance in the application of software engineering techniques and automated support tools.
Minimum education	B.S. (computer science or related), or H.S. with 7 years experience
Minimum years /general experience	At least 5 years' experience in the planning, analysis, design and construction of large-scale information systems, or 7 years experience.
Computer Systems Analyst I	***CLIN 015***
Functional responsibility	Supports the development of basic systems, such as ADP, EC, and EDI systems. Assists users with alternative designs for ADP, EC, and EDI systems, assisting in the finalizing of requirements and designs.
Minimum education	B.S., or H.S. with 5 years experience.
Minimum years /general experience	At least 2 years' experience in the translation of user requirements for engineering, business, and records management ADP, EC, and EDI functions into overall system designs, including significant managerial experience.

Graphics Specialist	***CLIN 016***
Functional responsibility	Responsible for the preparation and setup of graphic designs. Experienced with graphics application software packages. Assists in writing, reviewing, revising, and editing technical documentation. Assists in user training.
Minimum education	A.A. working towards a Bachelor's in a technical area, or H.S. plus 5 years experience
Minimum years /general experience	At least 3 years' applicable experience in appropriate field.
Program IT Designer	***CLIN 017***
Functional responsibility	Performs a variety of budgetary and programming functions that support the areas of budget and finance. Develops and produces schedules of varying complexity from the top level detailed master schedule to the lowest level detailed milestone charts. Monitors and evaluates acquisition/integration contract performance from the perspectives of technical performance, cost, and schedule.
Minimum education	M.A. in relevant discipline, or B.A. and 10 years experience
Minimum years /general experience	At least 6 years' applicable experience in project acquisition/management support, with extensive working knowledge/familiarity with Government acquisition and funding policies and procedures.
Systems Technician II	***CLIN 018***
Functional responsibility	Provides computer electronics technical support to engineers and scientists working in research, design, development, testing, and/or manufacturing. Experience with electrical machinery and diagnostic tools.
Minimum education	High School diploma, working towards Associates degree, or H.S. with 7 years experience
Minimum years /general experience	At least 5 years of technical support experience. Practical knowledge of science/engineering.
Systems Technician III	***CLIN 019***
Functional responsibility	Provides advanced professional computer electronics technical support to engineers and scientists working in research, design, development, testing, and/or manufacturing. Experience with electrical machinery and diagnostic tools.
Minimum education	High School diploma, working towards Associates degree, or H.S. with 12 years experience
Minimum years /general experience	At least 10 years of technical support experience. Practical knowledge of science/engineering.
Web Application Developer	***CLIN 020***
Functional responsibility	Directs and supports advanced web design applications and interfaces. Manages the technical team in integrating software applications and tools with the web. Provides recommendations and implements them into the overall web design.
Minimum education	High School Diploma and/or a graduate of a technical or computer school.
Minimum years /general experience	Five (5) years of working experience
Draftsperson (CAD)	***CLIN 021***
Functional responsibility	Responsible for Computer Aided Design applications. Assists in reviewing, revising, and editing technical CAD data. Assists in user training.
Minimum education	A.A. working towards a Bachelor's in a technical area, or H.S. plus 5 years experience.
Minimum years /general experience	At least 3 years' applicable experience in appropriate field.
Electrical / Electronics Engineer I	***CLIN 022***
Functional responsibility	Applies electrical and or electronics engineering methods and tools to the solution of specific technical problems. Works alone or with other engineers and technical staff in the accomplishment of assigned tasks.
Minimum education	B.S. (engineering)

Minimum years /general experience	At least 3 years' experience relevant to assigned tasks.
Electrical / Electronics Engineer II	***CLIN 023***
Functional responsibility	Applies advanced electrical and or electronics engineering methods and tools to the solution of complex technical problems. Works alone or with other engineers and technical staff in the accomplishment of assigned tasks.
Minimum education	M.S. (engineering), or B.S. with 5 years experience
Minimum years/general	At least 5 years' experience relevant to assigned tasks, including some managerial experience.
Hardware Engineer I	***CLIN 024***
Functional responsibility	Applies mechanical engineering methods and tools to the solution of specific technical problems. Works alone or with other engineers and technical staff in the accomplishment of assigned tasks.
Minimum education	B.S. (engineering)
Minimum years /general experience	Two (2) years experience
Hardware Engineer II	***CLIN 025***
Functional responsibility	Applies mechanical engineering methods and tools to the solution of specific technical problems. Works alone or with other engineers and technical staff in the accomplishment of assigned tasks.
Minimum education	B.S. (engineering)
Minimum years/general	At least 5 years' experience relevant to assigned tasks**,** including some managerial experience.
IT Electronics Technician I	***CLIN 026***
Functional responsibility	Provides basic electronics technical support to engineers and scientists working in research, design, development, testing, and/or manufacturing. Experience with electrical machinery and diagnostic tools.
Minimum education	High School diploma.
Minimum years /general experience	At least 2 years' of technical support experience. Practical knowledge of science/engineering.
IT Electronics Technician II	***CLIN 027***
Functional responsibility	Provides semiprofessional electronics technical support to engineers and scientists working in research, design, development, testing, and/or manufacturing. Experience with electrical machinery and diagnostic tools.
Minimum education	High School diploma, working towards Associates degree, or H.S. degree with 7 years experience
Minimum years /general experience	At least 5 years of technical support experience. Practical knowledge of science/engineering.
IT Electronics Technician III	***CLIN 028***
Functional responsibility	Provides advanced electronics technical support to engineers and scientists working in research, design, development, testing, and/or manufacturing. Troubleshoot systems. Experience with electrical machinery and diagnostic tools.
Minimum education	Associates degree, or H.S. with 10 years experience.
Minimum years /general experience	At least 8 years of technical support experience. Practical knowledge of science/engineering.
IT Systems Planner I	***CLIN 029***
Functional responsibility	Supports the planning, design, development, and implementation of complex information technology systems.
Minimum education	B.S., or H.S. with 5 years experience
Minimum years /general experience	At least 2 years' experience in the design of communications networks, ADP, or other information technology systems

IT Systems Planner III	***CLIN 030***
Functional responsibility	Oversees the planning, design, development, and implementation of complex information technology systems. Where required, supervises the technical efforts of other systems engineers and technical personnel in achieving the objectives of the assigned task.
Minimum education	B.S., or H.S. with 10 years experience
Minimum years /general experience	At least 5 years' experience in the design of communications networks, ADP, or other information technology systems, including significant managerial experience. Has detailed knowledge of one or more specialized engineering fields (e.g., radio communications, optics, computers, and command-control-communications (C3) systems).
IT Support Specialist	***CLIN 031***
Functional responsibility	Responsible for providing general support in the areas of IT, data, spreadsheets, and other off-the-shelf software tools. Data entry, review documents, and support templates.
Minimum education	H.S. with 2 years experience.
Minimum years /general experience	Experience in the area of program support. Knowledge of Government regulations, manuals, technical orders, standards, and industry publications related to logistics support required to perform the task.
IT Technical Writer II	***CLIN 032***
Functional responsibility	Reviews and edits written and graphical technical materials, including system configuration, studies, documentation, reports and other presentation graphics. Ensures compliance with standards of style and format, proper English usage, and overall structure and organization of material.
Minimum education	B.A., or H.S. with 7 years experience
Minimum years /general experience	At least 3 years' applicable experience in developing, editing, and producing technical and graphical documentation for Government ADP systems. Use of automated tools to prepare, update, store, and distribute technical and program documentation. Writing and proofreading technical and contractual language as used in program documentation.
Data Analyst	***CLIN 033***
Functional responsibility	Develops, designs, and maintains simple reports, spreadsheets, and databases. Assists staff on data input and other computer applications. Reviews/updates technical documentation.
Minimum education	H.S. Diploma
Minimum years /general experience	At least 2 years' applicable experience in appropriate field. Some programming and working knowledge of various computer applications. Clarification of technical requirements to produce technical reports.
Program Analyst II	***CLIN 034***
Functional responsibility	Analyzes projects to ensure that implementation and prescribed activities are carried out in accordance with specified cost, schedule, and technical performance objectives.
Minimum education	B.A. in relevant discipline or H.S. with 5 years experience.
Minimum years /general experience	At least 8 years' applicable experience in project acquisition/management support, with extensive working knowledge/familiarity with Government acquisition and funding policies and procedures.
Project Controller	***CLIN 035***
Functional responsibility	Plans, directs, coordinates, and controls technical and administrative activities for large, complex programs. Supervises program managers in the execution of their assigned duties. Reviews and maintains quality of technical work done on the program. Makes technical judgments and provides advice on the resolution of technical problems.
Minimum education	M.S., or B.S. and 10 years experience

Minimum years /general experience	12 years or more directly related experience including supervision of technical program execution, executive management, work planning, control of budget, schedule, and task execution, contract & subcontract management, personnel management and supervision.
Technical Analyst, Visualization, PDM	***CLIN 036***
Functional responsibility	Provides Cax, Visualization and PDM support to users. Tasks include developing best practices, mentoring users and help desk support. Work on a team configuring applications for PDM implementations. Tasks include developing best practices, creating processes and implementing solutions.
Minimum education	B.S.
Minimum years /general experience	One (1) Year Experience
Technical Specialist II, Visualization, CAx, PDM	***CLIN 037***
Functional responsibility	Provides CAx, Visualization and PDM support to users and management. Tasks include developing best practices, creating processes and implementing solutions. Work on a team configuring applications for PDM implementations. Tasks are typically on an organization level and may include mid-level programming, configuration and validation. Installs and configures software applications.
Minimum education	B.S.
Minimum years /general experience	Three (3) years experience

Special Item No: 132-51
Information Technology (IT) Professional Services
IT LABOR RATES

CLIN	Labor Category	GSA Price
001	Program Manager	$140.02
002	Task Manager	$124.52
003	Application Programmer I	$132.29
004	Application Programmer II	$84.01
005	Systems Engineer	$96.43
006	Engineer	$82.47
007	Documentation Specialist	$59.12
008	Senior Application Engineer	$226.58
009	Application Engineer I	$149.86
010	Application Engineer II	$170.21
011	Computer IT Programmer I	$70.30
012	Computer IT Programmer II	$96.22
013	Computer Scientist I	$117.19
014	Computer Scientist II	$154.20
015	Computer Systems Analyst I	$111.03
016	Graphics Specialist	$117.19
017	Program IT Designer	$125.82
018	Systems Technician II	$91.29
019	Systems Technician III	$127.05
020	Web Application Developer	$124.59
021	Draftsperson (CAD)	$76.50
022	Electrical / Electronics Engineer I	$97.44
023	Electrical / Electronics Engineer II	$140.63
024	Hardware Engineer I	$74.02
025	Hardware Engineer II	$117.19
026	IT Electronics Technician I	$57.97
027	IT Electronics Technician II	$72.78

CLIN	Labor Category	GSA Price
028	IT Electronics Technician III	$87.58
029	IT Systems Planner I	$80.17
030	IT Systems Planner III	$154.20
031	IT Support Specialist	$80.17
032	IT Technical Writer II	$122.13
033	Data Analyst	$86.36
034	Program Analyst II	$120.88
035	Project Controller	$210.92
036	Technical Analyst, Visualization, PDM	$144.32
037	Tech. Specialist II, Visualization, CAx, PDM	$222.04

Special Item No: 132-52 Electronic Commerce (EC) Services
EC Services Descriptions

Reverse Engineering Services, Complex	***SER-01***
Professional Services	Digital data capture, development, and analysis for a complex reverse engineering part or object. A complex part is one that features multi-faceted sides or angles, odd shape, curved surfaces, or other complex considerations with the item at hand. This service includes a daily rental rate for the imaging system as well as a technical operator to setup and operate the system and to deliver 3D digital model of the part.

Reverse Engineering Services, Standard	***SER-02***
Professional Services	Digital data capture, development, and analysis for a standard reverse engineering part or object. A standard part is one that features several sides or angles, typical shape, plain surfaces, and standard setup with the item at hand. This service includes a daily rental rate for the imaging system as well as a technical operator to setup and operate the system and to deliver 3D digital model of the part.

Reverse Engineering Services, Non-complex	***SER-03***
Professional Services	Digital data capture, development, and analysis for a complex reverse engineering part or object. A non-complex part is one that features few faceted sides or angles, typical shape, and plain surfaces. Limited setup required. This service includes a daily rental rate for the imaging system as well as a technical operator to setup and operate the system and to deliver 3D digital model of the part.

3-D Laser IT Imaging System Services	***SER-04***
Professional Services	Our 3-D Laser IT Imaging System Services consider of digital capturing of image data with a laser scanning system and providing three-dimensional data for spaces, buildings, equipment, etc to our customers for their individualized use/application. The captured data contains all geometric and dimensional information, which can be displayed on a personal computer. This service includes the associated labor of setting up and running the scanner for reality data capture. This service includes a daily rental rate for the imaging system as well as a technical operator to setup and operate the system.

Special Item No: 132-52 ELECTRONIC COMMERCE (EC)

EC Services Rate

CLIN	Description	GSA Price
SER-01	Reverse Engineering Services, Complex	$4,987.13
SER-02	Reverse Engineering Services, Standard	$3,098.06
SER-03	Reverse Engineering Services, Non-complex	$1,624.09
SER-04	3-D Laser IT Imaging System Services	$1,034.70