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GENERAL SERVICES ADMINISTRATION  
FEDERAL SUPPLY SERVICE  
AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICE LIST

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GSA Contract Number GS35F160CA

Contract Effective from February 1, 2015 through  
January 31, 2020

*Pricelist current through Mod PS-0005*

**Special Item No. 132-33 – Perpetual Software Licenses**

FSC/PCS CLASS 7030 ADP Software  
FSC/PSC CLASS J070 Maintenance – ADP Software

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

FSC/PSC Class D301 IT Facility Operation and Maintenance  
FSC/PSC Class D302 IT Systems Development  
FSC/PSC Class D307 IT Strategy and Architecture  
FSC/PSC Class D308 IT Programming  
FSC/PSC Class D310 IT Cyber Security and Data Backup  
FSC/PSC Class D311 IT Data Conversion  
FSC/PSC Class D313 IT Computer Aided Design/Computer Aided Manufacturing (CAD/CAM)  
FSC/PSC Class D316 IT Network Management  
FSC/PSC Class D317 IT Web-Based Subscription  
FSC/PSC Class D399 Other Information Technology

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.

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# 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.

## CONTACT FOR CONTRACT ADMINISTRATION

The following person(s) is designated as the Contract Administrator for this contract.

### CONTRACT ADMINSTRATOR

NAME: Loretta A. DeMaio  
ADDRESS: Spatial Integrated Systems, Inc.  
P.O. Box 5635  
Kinston, NC 28503  
PHONE: (252) 522-1456  
FAX: (252) 523-1803  
EMAIL: [gsa\\_admin@sisinc.org](mailto:gsa_admin@sisinc.org)

**CUSTOMER 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!<sup>TM</sup> on-line shopping service ([www.fss.gsa.gov](http://www.fss.gsa.gov)). The catalogs/pricelists, GSA Advantage!<sup>TM</sup> and the Federal Supply Service Home Page ([www.fss.gsa.gov](http://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:**

For Orders:

Spatial Integrated Systems, Inc.  
5716 Cleveland Str., Suite 100  
Virginia Beach, VA 24362  
Phone: 252-522-1456  
Fax: 252-523-1803  
E-mail: [gsainfo@sisinc.org](mailto:gsainfo@sisinc.org)

Remittance Address:

Spatial Integrated Systems, Inc.  
P.O. Box 5635  
Kinston, NC 28503  
Attn: Accounts Receivable

Government purchase cards acceptable for payments equal to or less than the micro-purchase threshold for oral or written delivery orders. Credit cards will be acceptable for payment above the micro-purchase threshold as long as the purchase is not above the ordering activity's established threshold for use of the credit card. 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: 176073633

Block 30: Type of Contractor –  
B. Other Small Business

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 System Award Management (SAM) Database.

**5. 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.

**6. DISCOUNTS:**

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

Prompt Payment: None

Quantity- For SIN 132-33 1% on orders in excess of \$300,000.00.

Dollar Volume-Discounts may be available for large orders. Special pricing will be determined on an individual basis and will be negotiated with each customer. Government Educational Institutions are

offered the same discounts as all other Government Customers.

Other-Negotiated on an individual task order basis.

**7. 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.

**8. STATEMENT CONCERNING AVAILABILITY OF EXPORT PACKING:**

If applicable, all packaging will meet export packaging requirements.

**9. SMALL REQUIREMENTS:**

The minimum dollar value of orders to be issued is \$100.00

**10. MAXIMUM ORDER:**

(All dollar amounts are exclusive of any discount for prompt payment.)

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 132-33: Maintenance of Software sold as a Product

Special Item Number 132-51: Information Technology (IT) Professional Services

**11. 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, synopsise 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.

## **12. FEDERAL INFORMATION TECHNOLOGY/TELECOMMUNICATION STANDARDS REQUIREMENTS:**

If applicable, 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):**

If applicable, 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.



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#### 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: – (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:

Time of delivery/installation quotations for individual orders;

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.

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](http://www.Section508.gov)

The EIT standard can be found at: [www.Section508.gov/](http://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 PERPETUAL SOFTWARE LICENSES (SPECIAL ITEM NUMBER (SIN) 132-33 MAINTENANCE FOR SOLIDEDGE AND FEMAP SOFTWARE PRODUCTS**

**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; and (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) prior to the end of Contractor's standard commercial warranty period.

**2. END USER LICENSE AGREEMENTS REQUIREMENTS (EULA) for Siemens Product Lifecycle Management Software, Inc. (SISW) Solid Edge and FEMAP - software products listed on the GSA Schedule.** The Contractor shall provide all End User License Agreements in an editable Microsoft Office (Word) format).

**End User License Agreement (EULA) - United States**

**Siemens Product Lifecycle Management Software, Inc. (SISW) On-Line End User License Agreement**

**IMPORTANT:** When installing Software that requires the end user to click an "agree" button to access the software, unless the end user is a warranted contracting officer, such agreement does not indicate acceptance of any license terms by the GSA Customer. Instead, by signing this Agreement, the GSA Customer indicates that it read and understood this Agreement and that the GSA Customer accepts these terms and conditions. If the GSA Customer does not agree with them, the GSA Customer should promptly return the Software along with proof of purchase to SISW or the Authorized Dealer from whom the GSA Customer obtained it for a full refund.

**1. Proof of Purchase.**

This license agreement (the "Agreement") represents the terms and conditions under which the Software has been licensed to the GSA Customer. Please print out a copy of it, treat it as valuable property and keep it in a safe place. The GSA Customer may be required at some point in the future to prove that it has a license to the Software. This Agreement together with a receipt, invoice or other purchase documentation will serve as the GSA Customer's only proof that it has a valid license to the Software.

**2. Definitions.**

(a) "Authorized Dealer" means a third party reseller or distributor which has been authorized by SISW to resell the Software and related services.

(b) "Authorized Users" means the GSA Customer's employees, and the GSA Customer's consultants, agents and/or independent contractors (collectively referred to as "personnel," hereinafter) who are working on the GSA Customer's premises, provided they are not competitors of SISW and they have agreed to restrictions on the use of the Software and obligations of confidentiality no less stringent than those set forth in this Agreement.

(c) “Documentation” means the explanatory printed or electronic materials provided by SISW with the Software, including, but not limited to, license specifications, instructions on how to use the Software and technical specifications.

(d) “License Types” refers to the definition of the various types of licenses pertaining to the Software as provided in Section 5 of this Agreement, including the limitations on the number of Authorized Users specified therein.

(e) “SISW” means Siemens Product Lifecycle Management Software Inc., a corporation organized under the laws of Delaware with its principal office located in Plano, Texas in the United States. SISW retains the right to utilize its affiliated companies in pursuing any of its rights and fulfilling any of its obligations under this Agreement. Therefore, the term “SISW” as used herein may also refer to affiliated companies that are directly or indirectly owned or controlled by the ultimate parent company of Siemens Product Lifecycle Management Software Inc. and who have been authorized by Siemens Product Lifecycle Management Software Inc. to distribute the Software and related services.

(f) “Software” means any software that is licensed by SISW to the GSA Customer under this Agreement, including the Documentation.

(g) “Territory” means the United States. .

(h) “The GSA Customer,” “The GSA Customer’s” and “You” refers to the Ordering Activity that purchased Software or services pursuant to the GSA Schedule Contract and any applicable Order and may refer to a legal entity including, but not limited to, an U.S. Government agency or instrumentality thereof.

### **3. Ownership of Software.**

SISW owns certain rights in the Software and Documentation, and any associated media, printed materials, "online" documentation and electronic documentation. THE SOFTWARE IS A PROPRIETARY PRODUCT OF SISW OR THIRD PARTIES FROM WHOM SISW HAS OBTAINED LICENSING RIGHTS. THE SOFTWARE IS PROTECTED BY COPYRIGHT LAWS AND OTHER INTELLECTUAL PROPERTY LAWS. TITLE TO THIS SOFTWARE, ANY COPY OF THIS SOFTWARE, AND ANY INTELLECTUAL PROPERTY RIGHTS IN THE SOFTWARE WILL AT ALL TIMES REMAIN WITH SISW AND SUCH THIRD PARTIES. The GSA Customer’s rights are defined by this Agreement which the GSA Customer agrees creates a legally binding and valid contract. SISW retains the right to utilize its affiliated companies, authorized distributors, authorized resellers and other third parties in pursuing any of its rights and fulfilling any of its obligations under this Agreement, subject to approval by the Contracting Officer.

### **4. License Grant.**

SISW grants to the GSA Customer a nonexclusive, nontransferable (except as may be required by applicable federal law) license to allow that number of Authorized Users for whom the GSA Customer purchased valid licenses of the Software under this Agreement to use the Software in the United States on the type of computer and with the operating system for which the Software was designed to operate. If the number of Authorized Users of the Software may exceed the number of applicable licenses, then the GSA Customer must have a mechanism or process in place to ensure that the number of Authorized Users using the Software does not exceed the number of authorized licenses the GSA Customer purchased. A single use of the Software occurs when the Software, or any portion of the Software, is loaded into memory for execution on a computer. If a copy of the Software is stored on or accessible through a network server for the sole purpose of execution by network computers, this will not be deemed a single use for purposes of this paragraph. SISW reserves the right to embed a software security mechanism within the Software to monitor usage of the Software to verify the GSA Customer’s

compliance with this Agreement. Such a security mechanism may store data relating to the usage of the Software and the number of times it has been copied, or may communicate with computers controlled by SISW over any type of communications link to exchange communications and report data relating to the usage of the Software and the number of times it has been copied. SISW reserves the right to use a hardware lock device, license administration software, and/or a license authorization key to control access to the Software. The GSA Customer may not take any steps to avoid or defeat the purpose of any such measures. Use of any Software without any required lock device or authorization key is prohibited.

With respect to SISW's Solid Edge Software only, if the Software is permanently stored on the hard disk or other storage medium of a standalone computer and only one Authorized User uses that computer more than 80% of the time it is in use, then that same Authorized User may also use the Software either on a portable computer or on a home computer within the U.S. , while the original copy is not in use, provided that the GSA Customer has a currently valid maintenance services contract with SISW or one of its affiliates or Authorized Dealers at that time.

If this Software is obtained as an upgrade or provided as an update to a previous version of licensed Software, this Software may be used only to replace the previous version, and no additional license is granted. This Software and any previous versions may not be separately used.

The GSA Customer may copy the Software into any machine readable or printed form for backup purposes in support of the GSA Customer's licensed use of the Software.

## 5. License Types.

The following License Types may be offered with respect to individual Software products or product families. The License Type will be specified in a Licensed Software Designation Agreement (LSDA) and a GSA Customer Purchase Order ("Order") which is acceptable in form to SISW. The LSDA may occur in electronic format or written format at the option of SISW.

(a) "Concurrent User" licenses means that access to the Software at any given moment will be limited to the maximum number of concurrent users for whom licenses have been validly acquired under this Agreement.

(b) "Named User" licenses means that access to the Software will be restricted to those individuals within the GSA Customer's organization that are named by the GSA Customer and for whom licenses have been validly acquired under this Agreement. The GSA Customer shall have the right to change Named User licenses provided that no individual Named User license may be changed more than once every thirty (30) days.

(c) "Node-Locked" license means that the use of the Software will be restricted to a single workstation specified by the GSA Customer. This type of license may be accompanied by a device or dongle to manage this restriction.

(d) "Per Server" license means that the use of the Software is restricted to a single server specified by the GSA Customer.

(e) RESERVED

(f) RESERVED

(g) RESERVED

(h) "Loaner" license means a license to the Software that is granted to the GSA Customer at SISW's option on a temporary basis, not to exceed 90 days, in order to provide the GSA Customer with a temporary workaround as part of SISW's maintenance obligations, if the GSA Customer has a current maintenance services contract with SISW, one of its subsidiaries or Authorized Dealers.

(i) RESERVED

(j) RESERVED

**6. The GSA Customer’s Responsibilities and Prohibited Actions.**

(a) Confidentiality. Pursuant to this Agreement, SISW will share the Software and other confidential business information of SISW or its third party suppliers with the GSA Customer. The GSA Customer will hold such information in confidence and take the precautions necessary to safeguard the confidentiality of such information. The GSA Customer will limit use of the Software to processing its own internal business and is prohibited from processing the data of or for any third parties. The GSA Customer may not analyze the Software for purposes competitive with those of SISW. In the event the GSA Customer conducts benchmarks or other tests concerning the Software, including any content or functionality of our third party licensors, the results shall constitute confidential information of SISW and shall not be published or otherwise revealed to any third party. When the end user is an instrumentality of the U.S. Government, neither this EULA nor the Schedule Price List shall be deemed “Confidential Information” notwithstanding marking to that effect. Notwithstanding anything in this Agreement to the contrary, the GSA Customer may retain such Confidential Information as required by law, regulation or its bona fide document retention procedures for legal, regulatory or compliance purposes; provided however, that such retained Confidential Information will continue to be subject to the confidentiality obligations of this Agreement.

(b) Remarketing of Software. It is expressly forbidden to cause or permit: (i) disclosure to, or access or use of the Software by anyone other than Authorized Users, (ii) the loan, publication, transfer of possession (whether by sale, exchange, gift, or otherwise) of the Software, in whole or in part, to or for any third party, and (iii) use of the Software as a service bureau.

(c) Transfer of Software. The GSA Customer may not transfer or assign all or any portion of the Software, or any rights granted in this Agreement, to any other person without the prior written consent of SISW. Assignment by SISW is subject to FAR 52.232-23 “Assignment of Claims” (Jan. 1986) and FAR subpart 42.12 “Novation and Change-of-Name Agreements” (Sep. 2013).

(d) Reverse Engineering or Modifying the Software. The GSA Customer will not reverse engineer, decompile, translate, disassemble, or otherwise attempt to discover the source code of the Software. The prohibition against modifying or reverse engineering the Software does not apply to the extent that the GSA Customer is allowed to do so by applicable federal law. If the GSA Customer purchased a license of SISW’s Solid Edge or FEMAP software, the software includes application programming interfaces (“APIs”) and the GSA Customer is authorized to use the APIs to develop software for the GSA Customer’s internal use and for resale to others under terms and conditions at least as stringent as those contained herein. The GSA Customer hereby accepts, and SISW hereby disclaims, any and all responsibility for software developed by the GSA Customer using the APIs. If the GSA Customer purchased a license to any other SISW product that includes APIs, including SISW’s Knowledge Fusion product, the GSA Customer is authorized to use Knowledge Fusion or the APIs to develop software solely for the GSA Customer’s internal use in conjunction with the Software. The GSA Customer is prohibited from reselling any software developed through the use of Knowledge Fusion or the APIs unless the GSA Customer is separately authorized to do so as a member of a SISW partner program. The GSA Customer may not otherwise modify, alter, adapt, or merge the Software.

(e) Use Outside of Territory. The GSA Customer may not access the Software outside of the United States without the prior written consent of SISW.

(f) Host Identifier. With respect to each order for Software under the GSA Schedule Contract, an applicable Order and this Agreement, the GSA Customer will provide SISW with the host identifier required by SISW and such other information reasonably requested by SISW to allow for installation of the Software for each workstation and/or server on which the license management portion of the



Software will be installed to permit SISW to generate a license file that will restrict end-user access to only those Software modules licensed under this Agreement. The license management portion of the Software will limit use of such Software modules at any given time to the maximum number of Authorized Users for which the GSA Customer purchased valid licenses as stated in an applicable Order.

(h) Export. SISW shall not be required to undertake any action pursuant to this Agreement that is prevented by any impediments arising out of national or international foreign trade or customs requirements, including embargoes or any other sanctions.

This Agreement is subject to all United States government laws and regulations as may be enacted, amended or modified from time to time regarding the export from the United States of SISW software, services, technology, or any derivatives thereof. The GSA Customer will not export or re-export any SISW software, services, technology, or any derivatives thereof, or permit the shipment of same without: (i) the express written consent of SISW and (ii) if necessary, obtaining any required prior authorization from the United States Department of Commerce or other applicable authority as may be required by law.

This Section will survive the expiration or termination of this Agreement for any reason.

## **7. RESERVED**

## **8. Term and Termination.**

When the end user is an instrumentality of the U.S., recourse against the United States for any alleged breach of this Agreement must be made as a dispute under the contract Disputes Clause (Contract Disputes Act). During any dispute under the Disputes Clause, SISW shall proceed diligently with performance of this contract, pending final resolution of any request for relief, claim, appeal, or action arising under the contract, and comply with any decision of the Contracting Officer. All license rights granted will cease upon any expiration or termination of this Agreement. Within 15 days after expiration or termination of the license rights granted herein or this Agreement for any reason, the GSA Customer will (i) return to SISW the original and all tangible copies of the Software in all forms, (ii) destroy all soft copies of the Software, and (iii) will certify to SISW in writing that such obligations have been fulfilled

## **9. Warranties and The GSA Customer's Remedies.**

SISW warrants that, during the Warranty Period as defined below, the Software will provide the features and functions generally described in the Documentation and that the media, if any, on which the Software is furnished will be free from defects in materials and workmanship. The "Warranty Period" is defined as 90 days from date the software is received by the GSA Customer. If it is not valid to limit the warranty period to 90 days under federal law, the Warranty Period is hereby extended to one (1) year or such lesser period of time as allowed by applicable federal law. SISW's entire liability and the GSA Customer's exclusive remedy during the Warranty Period will be, at SISW's option, to attempt to correct or work around errors, to replace defective media on which Software is installed, if any, or to refund the license fees for the Software involved and terminate the license immediately. Any refund is subject to the return and/or destruction of the Software or defective media to SISW in accordance with the provisions of Section 10 of this Agreement.

SISW MAKES NO OTHER WARRANTIES OF ANY KIND, AND NO WARRANTY IS GIVEN THAT THE SOFTWARE IS ERROR-FREE OR THAT ITS USE WILL BE UNINTERRUPTED OR THAT IT WILL WORK IN CONNECTION WITH ANY OTHER SOFTWARE. ALL WARRANTIES, CONDITIONS, REPRESENTATIONS, INDEMNITIES [OTHER THAN PATENT INDEMNITY REQUIRED BY FAR 52.212-4(h)] AND GUARANTEES, WHETHER EXPRESS OR IMPLIED,

ARISING BY LAW, CUSTOM, PRIOR ORAL OR WRITTEN STATEMENTS (INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE OR OF ERROR-FREE AND UNINTERRUPTED USE OR ANY WARRANTY AGAINST INFRINGEMENT) ARE HEREBY OVERRIDDEN, EXCLUDED AND DISCLAIMED, EXCEPT AS OTHERWISE EXPRESSLY STATED IN THIS LICENSE AGREEMENT

No SISW employee or Authorized Dealer or agent is authorized to make any modifications, extensions, or additions to these warranty provisions or to this License Agreement.

Computer-aided design software and other technical software are tools intended to be used by trained professionals only. They are not substitutes for the GSA Customer's professional judgment. Computer-aided design software and other technical software are intended to assist with product design and are not substitutes for independent design analysis, estimation or testing for product stress, safety and utility. Due to the large variety of potential applications for the Software, the Software has not been tested in all situations under which it may be used. SISW shall not be liable in any manner whatsoever for the results obtained through the use of the Software. Persons using the Software are responsible for the supervision, management and control of the Software. This responsibility includes, but is not limited to, the determination of appropriate uses for the Software and the selection of the Software and other programs to achieve intended results. Persons using the Software are also responsible for establishing the adequacy of independent procedures for testing the reliability and accuracy of any program output, including all items designed by using the Software.

All warranties are void if a failure of a warranted item results, directly or indirectly, from an unauthorized modification to a warranted item, an unauthorized attempt to repair a warranted item, or misuse of a warranted item, including, without limitation, use of a warranted item under abnormal operating conditions or subjecting a warranted item to unreasonably harsh conditions of any kind.

The above warranties and limitations give the GSA Customer specific legal rights, and The GSA Customer may also have other rights as described under Federal Law.

#### **10. Limitation of Liability.**

Subject to Federal Law, SISW's entire liability for all claims or damages arising out of or related to this Agreement, regardless of the form of action, whether in contract, equity, negligence, intended conduct, tort or otherwise, will be limited to and will not exceed, in the aggregate for all claims, actions and causes of action of every kind and nature; the amount paid to SISW for the specific item that caused the damage or that is the subject matter of the cause of action. In no event will the measure of damages payable by SISW include, nor will SISW be liable for, any amounts for loss of income, profit or savings or indirect, incidental, consequential, exemplary, punitive or special damages of any party, including third parties, even if SISW has been advised of the possibility of such damages in advance, and all such damages are expressly disclaimed. This Section 12 shall not be interpreted to exclude any liability that is prohibited from being excluded by applicable federal law.

#### **11. Indemnity for Infringement of Intellectual Property Rights.**

Subject to federal law, SISW will defend, at its expense, any action brought against the GSA Customer to the extent that it is based upon a claim that any Software furnished hereunder infringes a patent, copyright, trade secret or other intellectual property right that is recognized in the U.S. and will pay all costs and damages finally awarded against the GSA Customer by a court of competent jurisdiction, provided that SISW is given prompt written notice of such claim and is given an opportunity to intervene in any litigation, at its own expense, through counsel of its choosing. Nothing contained herein shall be construed in derogation of the U.S. Department of Justice's right to defend any claim or action

brought against the U.S., pursuant to its jurisdictional statute 28 U.S.C. §516.

SISW, at its option, will work with the Government to obtain for the GSA Customer the right to continue using the Software, or will replace or modify the Software involved so it becomes non-infringing; or, if such remedies are not reasonably available, SISW will grant the GSA Customer a refund for the Software involved depreciated as provided in U.S. Department of Treasury regulations, accept the return of the Software and terminate the license immediately.

SISW will have no obligation under this Section if the alleged infringement or violation is based upon the use of the Software in combination with other software not furnished by SISW, if such alleged infringement or violation would not have occurred except for such combined use or if such claim arises from SISW's compliance with the GSA Customer's designs, specifications or instructions. This Section represents the sole and exclusive liability of SISW for infringement of the intellectual property rights of a third party under this Agreement.

## **12. Software Maintenance Services.**

If the GSA Customer purchased maintenance services for the Software, the following terms apply:

(a) Maintenance Services. Software maintenance services consist of (i) the provision of Software updates, (ii) the provision of Error corrections, as defined herein, for the Software, and (iii) the provision of telephone support in connection with the Software. Software maintenance services will be provided in accordance with the terms of this Section to those customers who have purchased maintenance services under this Agreement for the applicable Software. Software maintenance services are, and will continue to be, available under this Agreement only to the extent that these services are made available by SISW with respect to the Software, or any portion of the Software, to its customer base in general.

(b) Maintenance Term. The GSA Customer may purchase Software maintenance services for an initial annual maintenance term or such other time period that is acceptable to SISW pursuant to the execution of a new or modified GSA Customer Purchase Order.

(c) New Releases of Software. New versions of the Software released by SISW may contain Error corrections and/or new or enhanced functionality. The GSA Customer shall have the right to receive new versions of the Software that are released to SISW's customers in general during any period of time for which the GSA Customer purchased maintenance services under this Agreement for the applicable Software. This right does not extend to any release, module, option, future product, or any upgrade in functionality or performance of the Software which SISW develops as a customized product for a single customer or that SISW develops and licenses as a separate product and not for release to customers in general as part of maintenance services. The GSA Customer is responsible for the installation and implementation of any new version and any required data conversion. The GSA Customer remains solely responsible for the configuration of the GSA Customer's own equipment and software, including the compatibility of any additional equipment or software with the SISW Software.

(d) Support for Prior Versions of the Software. Once a new version of the Software is released, SISW will maintain the current version it just released and the immediately preceding version.

(e) Error Corrections. An Error means the failure of the Software to conform substantially to the Documentation ("Error"). The GSA Customer may report any suspected Error to SISW or the applicable Authorized Dealer and, upon SISW's request, the GSA Customer will provide SISW with a detailed, written description and documentation of the suspected Error. SISW will investigate the facts and circumstances related thereto and the GSA Customer will cooperate with SISW's investigation, subject to Government security requirements. If SISW finds that the Software contains an Error, SISW will use all commercially reasonable efforts to correct the Error. An Error correction may consist of a separate patch, a workaround or it may be included in a future release of the Software, at the discretion of SISW.

(f) Telephone Support. The GSA Customer shall have the right to receive telephone support in connection with the Software from SISW or the applicable Authorized Dealer between the hours of 8:00 am and 5:00 pm EST in the U.S. except on federal holidays. The GSA Customer will also be provided with the ability, by means of an electronic channel via the Internet, to log Software support requests, report suspected Errors, monitor progress on the GSA Customer's prior requests, download Software fixes and workarounds, exchange information on a bulletin board, and obtain access to release notes and other Software information.

(h) Initial and Renewal Fees. Purchase of Software maintenance services for one of the GSA Customer's sites will be subject to the purchase of such services for all SISW supported Software modules licensed for use at that site. The fees for Software maintenance services will be set forth in the GSA Schedule Price List and all applicable GSA Customer Purchase Orders.

### **13. General.**

(a) Allocation of Risk. Except for the limited warranties granted above, The GSA Customer bears the entire risk as to damage and the quality and performance of the Software. The GSA Customer assumes risk as to any hardware, software, data or any other item as a result of the copying or use of the Software including, but not limited to any repairs or replacement of any item or any services. The GSA Customer assumes responsibility for the selection of this Software to achieve the GSA Customer's intended results, and for the installation, use and results obtained from this Software.

(b) Entire Agreement. The GSA Schedule Contract, this Agreement and any exhibits or appendices that are incorporated into this Agreement by reference, the GSA Schedule Pricelist, the LSDA, the Software License and Services Agreement and any applicable Orders constitute the complete and exclusive statement of the agreement between the parties and supersede all proposals, oral or written, and all other communications between the parties relating to the licensing of the Software. This Agreement, however shall not take precedence over the terms of the underlying GSA Schedule Contract or any specific, negotiated terms on the GSA Customer's Purchase Order. This Agreement may only be modified by written agreement of the parties executed by authorized representative or officers of the parties.

(c) Acceptance of Orders. SISW, in its sole discretion, reserves the right to accept or reject any order for the Software or services. Delivery of the Software will occur when SISW makes the Software available to the GSA Customer. The GSA Customer has the right to inspect and accept or reject any supplies or services ordered under a GSA Schedule Contract pursuant to FAR 8.406-2. The GSA Customer will, obtain any necessary permits and consents to install the Software at the GSA Customer's site.

(d) Taxes. Taxes are subject to FAR 52.212-4(k) which provides that the contract price shall include all federal, state and local taxes and duties. SISW shall state separately on its invoices, taxes excluded from the fees, and the GSA Customer agrees to either pay the amount of the taxes (based on the current value of the equipment or services) to SISW or provide it evidence necessary to sustain an exemption, in accordance with FAR 52.229-1 and FAR 52.229-3.

(e) Audits. The GSA Customer will at all times maintain records specifically identifying the Software licensed to it under this Agreement, the location of each copy thereof, and the location and identity of the workstations and servers on which the Software is installed. SISW may, during regular business hours and upon reasonable advance notice, subject to Government security requirements, conduct an audit to determine the GSA Customer's compliance with the terms and conditions of this Agreement. The GSA Customer will permit SISW or its authorized agents, subject to Government security requirements, to access its facilities, workstations and servers, otherwise cooperate fully with SISW in any such investigation and will take all commercially reasonable actions to assist SISW in accurately determining the GSA Customer's compliance with the terms and conditions of this Agreement. SISW and its authorized agents will comply with the GSA Customer's security regulations while on the GSA

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Customer's premises.

**14. Choice of Law.**

This Agreement will be governed by and construed in accordance with the federal laws of the United States, without giving effect to any choice-of-law rules that may require the application of the laws of another jurisdiction. This Agreement will not be governed by the United Nations Convention on Contracts for the International Sale of Goods, the application of which is expressly excluded.

**15. Severability/Reformation.**

If any provision of this Agreement is found to be void or unenforceable, it will not affect the validity of any other provision of this Agreement and those provisions will remain valid and enforceable according to their terms.

**TERMS AND CONDITIONS SCHEDULES A, B, and C FOR PERPETUAL SOFTWARE LICENSES - SPECIAL ITEM NUMBER (SIN) 132-33 AND SIN 132-33 MAINTENANCE**

**Siemens Product Lifecycle Management Software, Inc. (SISW) End User License Agreement for the licensing of SISW Software and the provision of SISW Software Maintenance**

**Schedule A**

**GENERAL TERMS AND CONDITIONS**

1. Applicability of this Schedule. The terms and conditions contained in Schedules A, B and C are applicable to all **Siemens Product Lifecycle Management Software, Inc. (SISW)** Software ordered under this GSA schedule other than Solid Edge & FEMAP which is covered by the EULA set forth above. This Agreement supersedes the terms of any click-wrap, shrink wrap, or break the seal license agreement included in any Software item procured under this GSA schedule. Maintenance of the Software licensed hereunder is provided per Schedule C. All licensing of Software is for object code only.

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) prior to the end of Contractor's standard commercial warranty period.

2. Ordering Software or Maintenance Services. All orders for Software and maintenance under this GSA schedule must include the Spatial Integrated Systems, Inc. GSA contract number incorporating the terms and conditions herein in every such order.

3. Fees. Customer will pay such fees as set forth in this GSA schedule.

4. Delivery and Installation of Software. Any order outside the minimum and or maximum order value may be rejected. Delivery of the Software identified in the order will occur when Spatial Integrated Systems, Inc. thru SISW makes the Software available to the Customer by means of electronic download from a website specified by **SISW**. Physical shipment of the media is at **SISW** option and will occur as an accommodation to the Customer or because certain elements of the Software are not available for electronic download. If a Customer's installation location resides in a taxing jurisdiction which does not apply a transactional tax (such as sales tax) to electronic deliveries only, and the Customer desires to avail itself of such provisions, the Customer must opt out of receiving physical shipments and execute an electronic delivery exception form, as specified by Spatial Integrated Systems, Inc., to arrange for electronic delivery only. The Software will be delivered subject to EXW (Inco terms 2010). Customer will, at its expense, obtain any necessary permits and consents to install the Software at the Customer's site. If Customer has purchased Spatial Integrated Systems, Inc. installation services, Spatial Integrated Systems, Inc. will install the Software, or cause it to be installed in accordance with a mutually agreed upon schedule.

5. Taxes. License fees are exclusive of all value added taxes, sales tax, use taxes, and the like.

Customer is responsible for, and will remit directly all required tax payments to the appropriate tax authorities, or pay to or reimburse Spatial Integrated Systems, Inc. for any taxes paid by it because of this transaction other than taxes on its income.

6. Invoicing and Payment Terms. Spatial Integrated Systems, Inc. will invoice Customer for Software and, if applicable, the annual maintenance services fees for the initial maintenance term once the Software has been made available for electronic download. Customer will pay each invoice as stipulated by the Prompt Payment Act.

7. Disclaimer. EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, SPATIAL INTEGRATED SYSTEMS, INC, SISW, AND ITS THIRD PARTY SUPPLIERS MAKE NO WARRANTIES OF ANY KIND, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE SOFTWARE OR SERVICES PROVIDED UNDER AND PURSUANT TO THIS AGREEMENT AND ALL SUCH WARRANTIES ARE HEREBY DISCLAIMED.

8. Limitation of Liability. Subject to the process described in FAR Section 52.233-1 Disputes, Spatial Integrated Systems, Inc. and SISW entire liability for all claims or damages arising out of or related to this Agreement, regardless of the form of action, whether in contract, tort or otherwise, will be limited to and will not exceed, in the aggregate the amount paid to Spatial Integrated Systems, Inc. under this Agreement for the specific Software or service that caused the damage or that is the subject matter of the claim. This limitation is not applicable to claims for patent, copyright, and trade secret infringement that are covered by Section 9 of this Schedule. Spatial Integrated Systems, Inc., SISW, nor its third party suppliers will be liable for any loss of income, profit or savings or indirect, incidental, consequential, exemplary, punitive or special damages of any party, including third parties, even if Spatial Integrated Systems Inc. and or SISW had been advised of the possibility of such damages in advance, and all such damages are expressly disclaimed. Neither party may make a claim under this Agreement arising out of an event or events that occurred more than two (2) years after the event is, or should have been, discovered by the party making the claim.

9. Indemnity. SISW through Spatial Integrated Systems, Inc. will defend, at its expense, any action brought against Customer to the extent that it is based upon a claim that any Software furnished hereunder infringes a United States patent, copyright, trade secret or other intellectual property right and will pay all costs and damages finally awarded against Customer by a court of competent jurisdiction, provided that Spatial Integrated Systems, Inc. is given prompt written notice of such claim. SISW or its designee will cooperate with the Department of Justice in any such claim with the right at its own expense to intervene in any legal proceedings or discussions through counsel of its choice.

SISW through Spatial Integrated Systems, Inc., at its option, will obtain for Customer the right to continue using, or will replace or modify the Software involved so it becomes non-infringing; or, if such remedies are not reasonably available, SISW through Spatial Integrated Systems, Inc. will grant Customer a refund for the Software involved based on a straight line amortization over 60 months from initial delivery, and accept the return of the Software.

Spatial Integrated Systems, Inc. and SISW will have no obligation under this Section if the alleged infringement or violation is based upon the use of the Software in combination with other software not furnished by SISW under Spatial Integrated Systems, Inc. GSA schedule if such alleged infringement or violation would not have occurred except for such combined use or if such claim arises from Spatial Integrated Systems, Inc. and or SISW's compliance with Customer's designs, specifications or instructions. This Section represents the sole and exclusive liability of Spatial Integrated Systems, Inc.

and SISW infringement of the intellectual property rights of a third party under this Agreement.

10. Termination. The license for the software will commence on the date of delivery and will be perpetual unless terminated as outlined below. Spatial Integrated Systems, Inc. and SISW rights shall be subject to the processes outlined in FAR 52.233-1 Disputes.

If either party materially defaults in the performance of any of its duties or obligations under this Agreement and fails to proceed within 30 days after written notice thereof to commence curing the default and thereafter to proceed with reasonable diligence to substantially cure the default, the other party may, by giving written notice thereof, terminate this Agreement effective immediately. However, this provision does not apply to (i) a breach by SISW or Spatial Integrated Systems, Inc. of the limited warranty set forth in Section 6 of Schedule B (since a specific remedy for such a breach is provided therein), (ii) a material breach of Section 5 of Schedule B by Customer (no cure period is provided for such a breach and Spatial Integrated Systems, Inc. may terminate this Agreement effective immediately), or (iii) a default in payments to Spatial Integrated Systems, Inc.

If Customer defaults in the payment of any amount due to Spatial Integrated Systems, Inc. pursuant to this Agreement and does not cure such default within 10 days after written notice thereof, Spatial Integrated Systems, Inc. may, by giving written notice thereof to Customer, (i) terminate Software maintenance services effective immediately if Customer defaults in the payment of Software maintenance fees, or (ii) terminate this Agreement in its entirety effective immediately if Customer defaults in the payment of Software license fees.

Except as may be prohibited by United States bankruptcy laws, in the event of either party's insolvency or inability to pay debts as they become due, voluntary or involuntary bankruptcy proceedings by or against a party hereto, or appointment of a receiver or assignee for the benefit of creditors, the other party may terminate this Agreement by written notice.

All license rights granted will cease upon any termination of this Agreement. Within 15 days after termination of the license rights granted herein or this Agreement for any reason, Customer will destroy the original and all copies of the Software in all forms, and will certify to Spatial Integrated Systems, Inc. and SISW in writing that such obligation has been fulfilled.

11. Notices. All notices required by or relating to this Agreement will be in writing and will be sent to Spatial Integrated Systems, Inc. to the attention of Contract Department, P.O. Box 5635, Kinston, NC 28501-5635 with a copy to Siemens Product Lifecycle Management Software Inc., Attention General Counsel, 5800 Granite Parkway, Suite 600, Plano, TX 75024; and to Customer at the address set forth on the first page of this Agreement; or to such other address as either party may specify by written notice to the other.

12. Export. Spatial Integrated Systems, Inc. obligation to fulfill this Agreement is subject to the proviso that it is not prevented by any impediments arising out of national or international foreign trade or customs requirements, including embargoes or any other sanctions.

This Agreement is subject to all United States government laws and regulations as may be enacted, amended or modified from time to time regarding the export from the United States of Siemens PLM software, technology, or any derivatives thereof. Customer will not export or re-export any Siemens PLM software, technology, or any derivatives thereof, or permit the shipment of same without: (i) the express written consent of Spatial Integrated Systems, Inc. and SISW and (ii) if necessary, obtaining at Customer's expense any required prior authorization from the United States Department of Commerce or other applicable authority as may be required by law.



The provision of this Section will survive the expiration or termination of this Agreement for any reason.

13. Confidentiality. The parties recognize that in the course of providing the Software and performing the services pursuant to this Agreement, both parties may have access to confidential information and trade secrets belonging to the other and each desire that such confidential information and trade secrets remain confidential. Each party agrees that all confidential information and trade secrets communicated to one party by the other in any manner (the "Confidential Information"), will be used by the recipient party only for the purposes allowed by this Agreement.

This Section will survive the expiration or termination of this Agreement for any reason.

14. Audits. Customer will at all times maintain records specifically identifying the Software licensed under this Agreement, the location of each copy thereof, and the location and identity of the workstations and servers on which the Software is installed. Spatial Integrated Systems, Inc. and or its designee may, during regular business hours and upon reasonable advance notice, conduct an audit to determine Customer's compliance with the terms and conditions of this Agreement. Customer will permit Spatial Integrated Systems, Inc. and or its designees to access Customer's facilities, workstations and servers and otherwise cooperate fully with Spatial Integrated Systems, Inc. and or its designee in any such investigation and will take all commercially reasonable actions to assist Spatial Integrated Systems, Inc. and or its designee in accurately determining Customer's compliance with the terms and conditions of this Agreement.

Spatial Integrated Systems, Inc. and or its designee and its authorized agents will comply with Customer's reasonable security regulations while on Customer's premises.

15. Mutual Cooperation. Each of the parties agrees to cooperate in good faith with the other party with respect to the delivery of notices, certificates or any other information or documentation reasonably required by the other party in meeting its obligations under this Agreement.

16. U.S. Government Restricted Rights. The Software is a commercial product that has been developed exclusively at private expense. If the Software is acquired directly or indirectly on behalf of a unit or agency of the United States Government under the terms of (i) a United States Department of Defense ("DOD") contract, then the Software and Documentation are considered "Commercial Items", as that term is defined in 48 C.F.R. §2.101, consisting of "Commercial Computer Software" and "Commercial Computer Software Documentation", as such terms are defined in 48 C.F.R. §252.227-7014(a)(5) and 48 C.F.R. §252.227-7014(a)(1), and used in 48 C.F.R. §12.212 and 48 C.F.R. 227.7202, as applicable, consistent with 48 C.F.R. §12.212, 48 C.F.R. §252.227-7015, 48 C.F.R. §227.7202 through 227.7202-4, 48 C.F.R. §52.227-14, and other relevant sections of the Code of Federal Regulations; or (ii) a Civilian agency contract, then use, reproduction, or disclosure is subject to the restrictions set forth in FAR clause 27.405(b)(2)(i), entitled Acquisition of Existing Computer Software, and any restrictions in the agency's FAR supplement and any successor regulations thereto, and the restrictions set forth in this Agreement. The United States Government will only have the rights set forth in this Agreement. Siemens PLM Software and Documentation are licensed to United States Government end users with only those rights as granted to all other end users, according to the terms and conditions contained in this Agreement.

17. General. This Agreement will extend to and be binding upon the successors, legal representatives and permitted assigns of the parties. However, this Agreement and the licenses granted hereunder may not be assigned, sublicensed, or otherwise transferred (by operation of law or otherwise) by Customer without the prior written consent of Spatial Integrated Systems, Inc.

The failure of either party to enforce at any time any of the provisions of this Agreement will in no way be construed to be a waiver of such provision, nor in any way affect the validity of this Agreement or any part thereof, or the right of the other party thereafter to enforce each and every provision.

Neither party will be liable for any delay in or failure to perform any of its non-monetary obligations under this Agreement if due to any cause or condition beyond their reasonable control, whether foreseeable or not.

If any provision of this Agreement is held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions will not in any way be affected or impaired, and such provision will be deemed to be restated to reflect the original intentions of the parties as nearly as possible in accordance with applicable law.

This Agreement will be governed by and construed in accordance with Federal Law, without giving effect to any choice-of-law rules that may require the application of the laws of another jurisdiction. The UN Convention on Contracts for the International Sale of Goods, the application of which is expressly excluded, shall not apply to transactions under this Agreement. The Uniform Computer Information Transactions Act, the application of which is expressly excluded, shall not apply to transactions under this Agreement.

**18. 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 Eastern 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.\*\***

**\*\*[\(Information will be provided with each order\)](#)\*\***

## 19. SOFTWARE MAINTENANCE

The Contractor's standard commercial maintenance is set forth in Schedule C.

### A. Software Maintenance as a Product (SIN 132-33)

Software maintenance as a product includes the publishing of bug/defect fixes via patches and updates/upgrades in function and technology to maintain the operability and usability of the software product. It may also include other no charge support that is included in the purchase price of the product in the commercial marketplace. No charge support includes items such as user blogs, discussion forums, on-line help libraries and FAQs (Frequently Asked Questions), hosted chat rooms, and limited telephone, email and/or web-based general technical support for user's self diagnostics.

- 1) Software maintenance as a product does NOT include the creation, design, implementation, integration, etc. of a software package. These examples are considered software maintenance as a service.

Software Maintenance as a product is billed at the time of purchase.

### B. Software maintenance service shall include the following:

- 1) **Software Maintenance.** Contractor or its designee will maintain the Software, or cause it to be maintained, during the Warranty Period. Thereafter, Contractor or its designee 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 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 or its designee, (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 or its designee develops as a customization product for a single customer or Contractor or its designee 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 or its designee 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 or its designee any suspected failure of the Software to conform substantially to its associated documentation (an "Error"). Upon Contractor or its designee ' request, Customer will provide in writing a detailed description and documentation of the suspected Error. Contractor or its designee will investigate the facts and circumstances related thereto and Customer will cooperate fully with the investigation. If Contractor designee finds that the Software contains an Error, Contractor or its designee will use its reasonable efforts to correct the Error or provide a "work-around" solution (a "Software Correction"), at SISW' discretion. SISW may provide Customer a copy of the corrected Software (or of the affected portions) in conjunction with the distribution of a Software update.

**(3) Limitation of Remedies.** Contractor and SISW' 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. SISW through the Contractor SISW 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.

C. 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.

## **20. UTILIZATION LIMITATIONS - (SIN 132-33,) 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 SISW, unless otherwise specified.
  - 2) The ordering activity shall have the right to use the computer software and documentation with the computer for which it is acquired at any other facility to which that computer may be

transferred, upon written notice to contractor, 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; 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

- 3) "Commercial Computer Software" may be marked with **SISW**'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.

## Schedule B

### LICENSED SOFTWARE TERMS AND CONDITIONS FOR ALL SOFTWARE PRODUCTS ON THE GSA SCHEDULE OTHER THAN SOLIDEDGE AND FEMAP SOFTWARE PRODUCTS

#### 1. Definitions.

(a) "Authorized Users" means (i) the employees of Customer, including employees of unincorporated divisions of Customer, but not employees of other legal entities (including employees of any legal entity that is a subsidiary of Customer or part of a group of companies affiliated with Customer), and (ii) Customer's consultants, agents and contractors who are working on Customer's premises, provided they are not competitors of **SISW** and they have agreed in writing to restrictions on the use of the Software and obligations of confidentiality no less stringent than those set forth in this Agreement.

(b) "Documentation" means the explanatory printed or electronic materials provided by **SISW** with the Software, including, but not limited to, license specifications, instructions on how to use the Software and technical specifications.

(c) "License Types" refers to the definition of the various types of licenses pertaining to the Software as provided in Section 3 of this Schedule, including the limitations on the number of users specified therein.

(d) "Software" means any software (object code only) that is owned or licensed by Siemens PLM to Customer under this Agreement, including the Documentation.

(e) "Territory" means the country in which a customer initially acquires and installs the Software.

2. License Grant. **SISW** grants to Customer a nonexclusive, nontransferable, limited license to install, access and use the executable form of the Software in the Territory for the purpose of processing Customer's own internal business. The description of the License Types in the following Section 3 defines the scope of the license rights **SISW** is granting to Customer. Any license granted herein is limited to use by the Authorized Users. Any usage of the Software outside the scope of the applicable License Type constitutes an infringement of **SISW**'s intellectual property rights and is a material breach of this Agreement. No license is granted to anyone under this Agreement if the Software has not been

lawfully acquired.

No title to or ownership in the Software is transferred to Customer. Title to the Software, and all applicable rights in patents, copyrights, trade secrets and other intellectual property rights inherent in the Software will remain in SISW or third parties from whom SISW has obtained the right to license the Software.

SISW reserves all rights in the Software not explicitly granted herein.

SISW reserves the right to embed a software security mechanism within the Software to monitor usage of the Software to verify the Customer's compliance with this Agreement. Such a security mechanism may store data relating to the usage of the Software and the number of times it has been copied, or may communicate with computers controlled by SISW over any type of communications link to exchange communications and report data relating to the usage of the Software and the number of times it has been copied. SISW reserves the right to use a hardware lock device, license administration software, and/or a license authorization key to control access to the Software. The Customer may not take any steps to avoid or defeat the purpose of any such measures. Use of any Software without any required lock device or authorization key is prohibited.

3. License Types. The following License Types may be offered with respect to individual Software products or product families. The License Type will be specified in any GSA schedule order issue hereunder.

(a) "Concurrent User" licenses means that access to the Software at any given moment will be limited to the maximum number of concurrent users for whom licenses have been validly acquired under this Agreement.

(b) "Named User" licenses means that access to the Software will be restricted to those individuals within Customer's organization that are named by Customer and for whom licenses have been validly acquired under this Agreement. Customer shall have the right to change Named User licenses provided that no individual Named User license may be changed more than once in any calendar month.

(c) "Node-Locked" license means that the use of the Software will be restricted to a single workstation specified by the Customer. This type of license is usually accompanied by a device or dongle to manage this restriction.

(d) "Per Server" license means that the use of the Software is restricted to a single server specified by Customer.

(e) "Per Product" license means that the use of the Software will be restricted to the number of third party products the Software is interfaced with on a one-to-one basis.

4. Permitted Actions. Customer may copy the Software as reasonably required in conjunction with Customer's permitted use under this Agreement and for backup purposes. Customer will retain and reproduce all copyright or proprietary notices in their exact form on all copies (including partial copies) of the Software made by Customer. The original and all complete and partial copies of the Software, including the intellectual property rights inherent in the Software, will remain the sole property of SISW and will be subject to the terms and conditions of this Agreement. Subject to the processes outlined in FAR Section 52.233-1 Disputes, if Customer breaches or threatens to breach the terms of this Section 4, SISW will have all rights available to it under federal law.

5. Customer Responsibilities and Prohibited Actions.

(a) Confidentiality. Pursuant to this Agreement, SISW will share the Software and other

confidential business information of SISW and/or its third party suppliers with Customer. Customer will hold such information in confidence and take the precautions necessary to safeguard the confidentiality of such information. Customer will limit use of the Software to Authorized Users solely for processing the work of Customer's own internal business, but excluding processing the data of or for any other third parties. If, however, Customer's business is to produce and deliver to its customers a computer mathematical rendition of a product design, such use of the Software is permitted subject to the obligations of confidentiality and nondisclosure set forth in this Agreement as they apply to the Software.

(b) Remarketing of Software. The following uses of the Software are expressly forbidden: to cause or permit (i) disclosure, display, access, or use of the Software by anyone other than an Authorized User, (ii) the loan, publication, transfer of possession (whether by sale, exchange, gift, operation of law or otherwise) of the Software, in whole or in part, to or for any third party, and (iii) use of the Software as a service bureau.

(c) Transfer of Software. Customer may not distribute, rent, loan, lease, sell, sublicense or otherwise transfer all or any portion of the Software, or any rights granted in this Agreement, to any other person without the prior written consent of SISW.

(d) Reverse Engineering or Modifying the Software. Customer will not reverse engineer, decompile, translate, disassemble, or otherwise attempt to discover the source code of the Software. In the event Customer has a valid license to use SISW's Knowledge Fusion product or a SISW Application Programming Interface (collectively referred to herein as "API's") that has been provided with the Software, Customer is authorized to use the API's to develop software solely for Customer's internal use in conjunction with the Software and Customer is prohibited from reselling any software developed through the use of the API's unless Customer is separately authorized to do so as a member of a SISW partner program. Customer may not otherwise modify, alter, adapt, or merge the Software.

(e) Use Outside of Territory. Customer may not access the Software outside of the Territory.

(f) Host Identifier. With respect to each order for Software under this Agreement, Customer will provide SISW with the host identifier required by SISW and such other information reasonably requested by SISW for each workstation and/or server on which the license management portion of the Software will be installed to permit SISW to generate a license file that will restrict end-user access to only those Software modules licensed under this Agreement and limit use of such Software modules at any given time to the maximum number of Authorized Users licensed.

(g) Third Party Suppliers. Customer agrees that SISW's third party suppliers may enforce this Agreement as it relates to their Software directly against Customer.

## 6. Limited Warranty and Disclaimers.

(a) SISW warrants that it has all requisite rights and licenses to grant to the Customer the rights purported to be granted pursuant to this Agreement.

(b) SISW warrants that, as of the date the Software is made available to you via electronic download and for a period of 90 days thereafter (the "Warranty Period"), the Software will provide the features and functions generally described in the Documentation and that the media on which the Software is furnished, if any, will be free from defects in materials and workmanship. SISW's entire liability, and Customer's exclusive remedy, during the Warranty Period will be, at SISW's option, to attempt to correct or work around errors, to replace defective media on which Software is installed, if any, or to refund the license fees for the Software involved. Any refund is subject to the return of the Software or

defective media to SISW.

(c) Functionality Limitations. Computer-aided design software and other technical software are tools intended to be used by trained professionals only. They are not substitutes for Customer's professional judgment. Computer-aided design software and other technical software are intended to assist with product design and are not substitutes for independent design analysis, estimation or testing for product stress, safety and utility. Due to the large variety of potential applications for the Software, the Software has not been tested in all situations under which it may be used. SISW shall not be liable in any manner whatsoever for the results obtained through the use of the Software. Persons using the Software are responsible for the supervision, management and control of the Software. This responsibility includes, but is not limited to, the determination of appropriate uses for the Software and the selection of the Software and other programs to achieve intended results. Persons using the Software are also responsible for establishing the adequacy of independent procedures for testing the reliability and accuracy of any program output, including all items designed by using the Software.

(d) EXCEPT FOR THE EXPRESS LIMITED WARRANTIES PROVIDED IN THIS SECTION 6, SPATIAL INTEGRATED SYSTEMS, INC AND SISW MAKES AND YOU RECEIVE NO EXPRESS WARRANTIES. ANY STATEMENTS OR REPRESENTATIONS ABOUT THE SOFTWARE AND ITS FUNCTIONALITY IN THE DOCUMENTATION OR ANY COMMUNICATION WITH YOU CONSTITUTE TECHNICAL INFORMATION AND NOT AN EXPRESS WARRANTY OR GUARANTEE. IN ADDITION, SPATIAL INTEGRATED SYSTEMS, INC. AND OR SISW DOES NOT KNOW THE PARTICULAR PURPOSE OF THE CUSTOMER'S INTENDED USE AND AS SUCH PECIFICALLY DISCLAIMS ANY OTHER WARRANTY INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. WITHOUT LIMITING THE FOREGOING, SIEMENS PLM DOES NOT WARRANT THAT THE OPERATION OF THE SOFTWARE WILL BE UNINTERRUPTED OR ERROR FREE.

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## Schedule C

### SOFTWARE MAINTENANCE TERMS AND CONDITIONS

**1. Software Maintenance.** Software maintenance services consist of (a) the provision of Software updates, (b) the provision of Error corrections, as defined herein, for the Software, and (c) the provision of telephone support in connection with the Software. Software maintenance services will be provided in accordance with the terms of this Schedule to those customers who have purchased maintenance services under this Agreement for the applicable Software.

**2. Maintenance Term.** Customer may purchase Software maintenance services for an initial annual maintenance term or such other time period that is acceptable to SIS.

**3. New Releases of Software.** New versions of the Software released by SISW may contain Error corrections and/or new or enhanced functionality. A new version may be either a point release denoted by a change to the right of the first decimal point (e.g. V18.0 to V18.1) (a “Point Release”) or a major release denoted by a change to the left of the first decimal point (e.g. V18.0 to V19.0) (a “Major Release”). A Point Release will generally consist of corrections to known Errors. A Major Release will generally consist of a new version of the Software that contains new or enhanced functionality. Customer shall have the right to receive new Point Releases and new Major Releases of the Software that are released to SISW’s customers in general during any period of time for which Customer has purchased maintenance services under this Agreement for the applicable Software. This right does not extend to any release, module, option, future product, or any upgrade in functionality or performance of the Software which SISW develops as a customized product for a single customer or that SISW develops and licenses as a separate product and not for release to customers in general as part of maintenance services. Customer is responsible for the installation and implementation of any new version and any required data conversion. Customer remains solely responsible for the configuration of its own equipment and software, including the compatibility of any additional equipment or software with the SISW Software.

**4. Support for Prior Versions of the Software.** Once a new version of the Software is released, either a Point Release or a Major Release, SISW will maintain the current version it just released and the most current Point Release that relates to the immediately preceding Major Release. For example, if V2.1 is released, SISW will maintain V2.1 and V1.x, where x is the latest Point Release in the V1 series. If a known Error has been corrected in an update to the prior Major Release, SISW retains the right to require the Customer to upgrade to the requisite Point Release that contains the Error correction rather than providing a separate patch or workaround.

**5. Error Corrections** An Error means the failure of the Software to conform substantially to the Documentation (“Error”). Customer may report any suspected Error to SISW and, upon SISW's request, Customer will provide SISW with a detailed, written description and documentation of the suspected Error. SISW will investigate the facts and circumstances related thereto and Customer will cooperate with SISW's investigation. If SISW finds that the Software contains an Error, SISW will use all commercially reasonable efforts to correct the Error. An Error correction may consist of a separate patch, a workaround or it may be included in the next available Point Release or Major Release of the Software, at the discretion of SISW.

**6. Telephone Support.** Customer shall have the right to receive telephone support in connection with the Software by calling the toll-free number provided by SISW between the hours of 8:00 am and 5:00



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pm, EST, Monday through Friday, except on federal holidays. Customer will also be provided with the ability, by means of an electronic channel via the Internet, to log Software support requests, report suspected Errors, monitor progress on the Customer's prior requests, download Software fixes and workarounds, exchange information on a bulletin board, and obtain access to release notes and other Software information.

**7. Initial and Renewal Fees.** Purchase of Software maintenance services for a Customer site will be subject to the purchase of such services for all SISW supported Software modules licensed for use at that site. The fees for Software maintenance services will be set forth in the Order based on the GSA Schedule Pricelist.

**TERMS AND CONDITIONS APPLICABLE TO INFORMATION  
TECHNOLOGY (IT) PROFESSIONAL SERVICES (SIN 132-51)**

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.

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.

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## 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.

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#### 14. RESUMES

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

#### 15. INCIDENTAL SUPPORT COSTS

Open Market items (non-contract) items may added to a Federal Supply Schedule Blanket Purchase Agreement (BPA) or an individual order, provided that the items are clearly identified as such on the order, all applicable regulations have been followed, and price reasonableness has been determined by the ordering activity for the open market (non-contract) items.

#### 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. 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



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## 18. ORDERING SERVICES

Services orders must be accompanied by a written statement of work. SIS will help its customers identify their requirements and will assist in estimating the duration of the job and which labor categories should apply. A statement of work should address: scope of the effort, place of performance, deliverables, acceptance criteria, applicable standards and any special requirements.

- a. Order for services can be structured as time and material or fixed price, labor hour.
- b. The minimum order is one day (eight hours). Research and Development services may be ordered in hourly increments. SIS will invoice the customer for the hours ordered and worked.
- c. Description of the typical education, experience, and duties for each position listed on the schedule, are provided in the section, Description of Labor Categories.
- d. Prices listed on the schedule are based on work being performed during normal working hours. Surcharges for overtime and shift differential will be negotiate with the customer as the need arises.
- e. Discounts may be available for large orders, long-term assignments, and geographic locations. Please contact the SIS GSA representative for assistance and special pricing.
- f. SIS will accept written orders, blanket purchase orders, individual purchase orders, or task orders for ordering services under this contract.
- g. SIS will submit invoices separately to each government office ordering services under the contract.

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**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;

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(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.

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## 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 of 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 Software Product Descriptions (sorted by part number)**

<i>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</i>		
A001	Core Master Modeler	<p>The Core products contain the foundation capabilities that can be used standalone and/or can provide base capabilities for other applications. Additionally, the most popular applications and specialized functionality have been combined into a series of very attractively priced Application Sets to make the benefits of the system even more accessible. These Application Sets provide functionality to meet the user’s needs today, as well as provide a growth path to even more team capability. In addition, the product packaging simplifies purchase and implementation since it provides unbundled user access to all function in a Application Set. Included in these Application Sets are: Surfacing Set, Assembly Set, Simulation Modeling Set, Simulation Solution Set, Manufacturing Set, and the Advanced Manufacturing Set.</p> <p>I-deas(r) Master Modeler(tm) software is a high-performance 3D design system, and the multi-purpose geometric modeling foundation of I-deas. You can use it to create application- specific geometry for use in other I-deas applications such as finite element modeling, drafting, and manufacturing. You work with a user interface tuned for ease of learning and optimal productivity to design complex mechanical parts in an intuitive feature-based solid modeling environment. The solids-based approach aids design productivity by simplifying construction of complex geometry, facilitating design changes, automatically removing hidden lines, directly calculating mass properties, and providing an accurate part definition for NC machining.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>A002</p>	<p>Master Drafting</p>	<p>The Core products contain the foundation capabilities that can be used standalone and/or can provide base capabilities for other applications. Additionally, the most popular applications and specialized functionality have been combined into a series of very attractively priced Application Sets to make the benefits of the system even more accessible. These Application Sets provide functionality to meet the users needs today, as well as provide a growth path to even more team capability. In addition, the product packaging simplifies purchase and implementation since it provides unbundled user access to all function in a Application Set. Included in these Application Sets are: Surfacing Set, Assembly Set, Simulation Modeling Set, Simulation Solution Set, Manufacturing Set, and the Advanced Manufacturing Set.</p> <p>I-deas(r) Master Drafting(tm) is used to create detailed production mechanical drawings in two basic ways:</p> <ul style="list-style-type: none"> <li>* As a tool for documenting solid models created in I-deas Master Modeler(tm)</li> <li>* As a standalone high-performance 2D drafting system</li> </ul> <p>It uses the Dynamic Navigator(tm) style of user interaction which delivers an innovative style of CAD operation. Orthographic, section, detail, and auxiliary views are easily created from the master model geometry along with dimensions and GD&amp;T symbology. Drawings are bi-directionally associative to the master model, and the integrated data management system tracks drawings and maintains relationships to the models from which they were created.</p>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>A003</p>	<p>Surfacing Set</p>	<p>The Core products contain the foundation capabilities that can be used standalone and/or can provide base capabilities for other applications. Additionally, the most popular applications and specialized functionality have been combined into a series of very attractively priced Application Sets to make the benefits of the system even more accessible. These Application Sets provide functionality to meet the users needs today, as well as provide a growth path to even more team capability. In addition, the product packaging simplifies purchase and implementation since it provides unbundled user access to all function in a Application Set. Included in these Application Sets are: Surfacing Set, Assembly Set, Simulation Modeling Set, Simulation Solution Set, Manufacturing Set, and the Advanced Manufacturing Set.</p> <p>I-deas(r) Master Surfacing(tm) is the advanced surface modeling complement to I-deas Master Modeler(tm). It helps you quickly and easily design and iteratively modify complex sculptured surface parts. I-deas Master Surfacing provides a rich set of curve and surface creation tools for lofting, sweeping, and blending surfaces, giving you excellent local and overall control of surface shape. Not only can you create your shape, but you can also easily make design changes because relationships between geometry entities, such as surface tangencies, are maintained throughout the design effort. Advanced fairing operations help you remove bulges and achieve excellent local shape control of free-form surfaces.</p>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

A004	Assembly Set	<p>The Core products contain the foundation capabilities that can be used standalone and/or can provide base capabilities for other applications. Additionally, the most popular applications and specialized functionality have been combined into a series of very attractively priced Application Sets to make the benefits of the system even more accessible. These Application Sets provide functionality to meet the users needs today, as well as provide a growth path to even more team capability. In addition, the product packaging simplifies purchase and implementation since it provides unbundled user access to all function in a Application Set. Included in these Application Sets are: Surfacing Set, Assembly Set, Simulation Modeling Set, Simulation Solution Set, Manufacturing Set, and the Advanced Manufacturing Set.</p> <p>I-deas(r) Master Assembly(tm) allows you to work in a multi-user environment to lay out, design, and manage large mechanical assemblies. It shortens design time and improves design quality by simplifying packaging and interference studies. I-deas Master Assembly facilitates a disciplined, "top-down" design approach. It helps you create a logical product structure for products which can have hundreds of parts and many levels of design hierarchy. This allows designs to begin with little or no geometry and grow into a complete "master assembly" database to represent the detailed design efforts of the entire development team.</p>
A026	MasterFEM Package	MasterFEM Package
A052	Sheet Metal	<p>Using the variational solid modeling capabilities of I-deas(r) Master Modeler(tm), I-deas Sheet Metal Design(tm) automatically incorporates user-definable bend tables, stress reliefs, and shrinkage allowance into solid models to help you rapidly design and evaluate sheet metal parts. A catalog of sheet metal features including punches, tabs, and other features allows you to add final detail to the part to capture true design intent. The solid sheet metal model can be unfolded and used to create fully associative flat pattern production drawings, and numerical control (NC) toolpaths for manufacturing. The ability to fully integrate the design, documentation, and manufacturing into one design database greatly reduces the sheet metal design process.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

A053	Harness Design	I-deas(r) contains general functionality for the modeling of path-based entities such as cables, tubes, and flexible hoses. I-deas Harness Design(tm) is a specialization of that capability for design, routing, and documentation of cables and wire harnesses. Its use within I-deas allows you to conduct harness design at the system level in the NX Assembly Modeling environment without needing to wait for physical prototypes.
A121	I-deas AutoCAD Data Translator	<p>The I-deas(r) Data Translator, AutoCAD to/from I-deas Master Drafting(tm) lets I-deas users directly exchange data with outside vendors, subcontractors, or prime contractors who use AutoCAD.</p> <p>The translator can be used to migrate all or a portion of a company's drafting requirements from AutoCAD to I-deas Master Drafting. With I-deas drafting, these companies will be able to enjoy the productivity benefits of the Dynamic Navigator(tm), associative annotation, related projectable views, variational geometry, and many other advanced drafting features.</p>
A145	Response Analysis	I-deas(r) Response Analysis enables you to interactively evaluate forced responses of a structure when an impact, transient, frequency (harmonic), random (PSD), or response (shock) spectrum excitations are applied. The modal component data, which are used to represent the linear model of the structure, can be generated by I-deas or other FE solvers, or created from test measurements. These modes are then used to evaluate responses in I-deas Response Analysis using a modal response approach.
A180	Master Notation	<p>I-deas(r) Master Notation(tm) is a production 3D annotation system for documenting I-deas solid model designs created in I-deas Master Modeler(tm) or I-deas Master Assembly(tm). I-deas Master Notation can be used as a documentation tool in two basic ways:</p> <ul style="list-style-type: none"> <li>* As a tool for creating fully documented solid models for design review or release, without the need to create drawings.</li> <li>* As a tool for documenting solid models created in I-deas, in preparation for quickly creating drawings.</li> </ul>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

A724	Imageware Polygon Modeling	<p>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</p>
A738	Imageware Evaluation	<p>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.</p> <p>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.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
A740	Imageware Surfacing	<p>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.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
A742	Imageware Point Processing	<p>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.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

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.
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

E002	FEMAP (Node Locked)	<p>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.</p>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

E004	FEMAP (Floating)	<p>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.</p>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>E600</p>	<p>FEMAP with NX          Nastran: Basic (Node          Locked)</p>	<p>Femap with NX Nastran : Basic (E600) provides a node locked bundle that incorporates Femap together with NX Nastran Basic, in a single, integrated, solution. Based on MSC.Nastran, NX.Nastran, is the premium computer aided engineering (CAE) tool that major manufacturers worldwide rely on for their critical engineering computing needs to produce safe, reliable, faster and optimized designs.</p> <p>This base package of Femap with NX Nastran provides a complete, base solution level for Femap. It is ideal for customers who need a complete, flexible, powerful and cost effective finite element solution together with a comprehensive suite of pre and post processing capabilities for that solution.</p> <p>As such 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.</p>
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<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
E601	FEMAP with NX Nastran: Basic (Floating)	<p>Femap with NX Nastran : Basic (E601) provides a floating bundle that incorporates Femap together with NX Nastran Basic in a single, integrated, solution.</p> <p>Based on MSC.Nastran, NX.Nastran, is the premium computer aided engineering (CAE) tool that major manufacturers worldwide rely on for their critical engineering computing needs to produce safe, reliable, faster and optimized designs.</p> <p>This base package of Femap with NX Nastran provides a complete, base solution level for Femap. It is ideal for customers who need a complete, flexible, powerful and cost effective finite element solution together with a comprehensive suite of pre and post processing capabilities for that solution.</p> <p>As such 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.</p>
EFI24051	Lifecycle Representations User Module	<p>Lifecycle Representations User Module is a concurrent license to enable users to view, query, and navigate multiple lifecycle representations of products defined in Teamcenter.</p> <p>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.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
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.
EFI40440	E-factory Resource Manager user module	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.
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.
FS201FNX	NX CEE - FL	FiberSIM Composite Engineering Environment (CEE) - For NX -Floating License
FS201NNX	NX CEE - NL	FiberSIM Composite Engineering Environment (CEE) - For NX- Node Locked License
FS202FNX	NX Advanced CEE - FL	FiberSIM Advanced Composite Engineering Environment (ACEE) - For NX-Floating License
FS202NNX	NX Advanced CEE - NL	FiberSIM Advanced Composite Engineering Environment (ACEE) - For NX- Node Locked License
FS220FNX	NX Laser Projection - FL	Laser Projection Option - For NX-Floating License
FS220NNX	NX Laser Projection - NL	Laser Projection Option - For NX- Node Locked License
FS230FNX	NX Export - FL	Export Option - For NX-Floating License
FS230NNX	NX Export - NL	Export Option - For NX- Node Locked License

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
FS234FNX	NX Composite STEP Exp/Imp FL	NX Composite STEP Exp/Imp -Floating License
FS234NNX	NX Composite STEP Exp/Imp NL	NX Composite STEP Exp/Imp - Node Locked License
FS240FNX	NX Documentation - FL	Documentation Option - For NX-Floating License
FS240NNX	NX Documentation - NL	Documentation Option - For NX- Node Locked License
FS250FNX	NX Analysis Interface Base - FL	Analysis Interface Base Option - For NX-Floating License
FS250NNX	NX Analysis Interface Base - NL	Analysis Interface Base Option - For NX- Node Locked License
GS10105	Geolus-Federate	Geolus-Federate is an option to Geolus Search that enables customers to perform searches across multiple servers. The search results for a set of servers in a “federation” are collated and returned as a single set of search results. It is aimed at multisite customers, presenting an alternative to establishing a central Geolus server with which satellite sites have to sync.
GS10110	Geolus Enterprise Tools	A suite of tools developed to support Enterprise customers who generally have larger databases. Included in this suite is the ability to optimize searches by pre-computation of a search cache, the ability to modify attributes and support multiple sources of attribute data. It can test the similarity of two JT files. It also includes the ability create a federation of Geolus servers
IDUG305	NX MasterFEM+ Upgrade for NX Bundle	NX MasterFEM+ Upgrade for NX Bundle
JK21001	Tecnomatix Jack Floating License Borrow Option	Tecnomatix Jack Floating License Borrow Option The Tecnomatix Jack Floating License Borrow Option allows a user to borrow a floating license from the license server and then disconnect from the server. The most common use-case for this would be those with laptops that need to travel with them or otherwise disconnect them from the company network, but still want to have access to Tecnomatix Jack applications. Users will be able to borrow a license from the license server for a maximum of 14 days. If they wish to return the borrowed license early they can do so.

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
KF1001	NX KF Extension	KF1001 contains license features for 2 pieces of KF related functionality that we have not yet made into products in the price book. The 2 features are: - 1. ug_kf_new_geom: The license feature name for KF Feature, or Knowledge Feature. This allows customers to create their own proprietary features that act just like regular NX features. - 2. ug_kf_pipeline: Provides access to the Knowledge Pipeline, which is a CORBA compliant distributed tool for NX and KF.
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.

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX10105</p>	<p>NX Mach Power Drafting</p>	<p>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:</p> <ul style="list-style-type: none"> <li>- As a tool for documenting 3D solid models created in NX “and/or”</li> <li>- As a standalone high-performance 2D drafting system</li> </ul> <p>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.</p> <p>NX Mach Power Drafting content:</p> <ul style="list-style-type: none"> <li>-Teamcenter Engineering - NX Manager</li> <li>-Teamcenter - CAD Manager Server</li> <li>-Teamcenter - Visualization Base</li> <li>- Gateway</li> <li>- Drafting</li> <li>- DraftingPlus</li> <li>- Translators (IGES, DXF/DWG, 2D Exchange)</li> </ul>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

NX10106	NX Power Drafting	<p>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:</p> <ul style="list-style-type: none"> <li>• As a tool for documenting solid models created in NX</li> <li>• As a standalone high-performance 2D drafting system</li> </ul> <p>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.</p>
NX10210	NX CMM Inspection Programming	<p>NX CMM Inspection Programming</p> <p>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.</p> <p>Specifically:</p> <ul style="list-style-type: none"> <li>- 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</li> <li>- Full machine simulation for path generation and collision detection</li> <li>- Post Processor support for DMIS or customer written CMM vendor languages</li> <li>- Automatic program updates based on changes to the model</li> <li>- Support multiple CAD data formats via NX translators</li> </ul>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX11100</p>	<p>NX Mach 1 Design (Node Locked)</p>	<p>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.</p>
<p>NX11110</p>	<p>NX Mach 1 Design (Floating)</p>	<p>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.</p>



**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX11113</p>	<p>Mechatronics Concept Designer</p>	<p>Mechatronics Concept Designer is a standalone seat that delivers a functional design approach for designers to build concept models that combine, mechanical, electrical and software components based upon system level product requirements.</p> <p>Mechatronics Concept Designer enables early conceptual design capabilities in the disciplines of Mechanical, Electrical, and Automation design and engineering and their associated parallel interdisciplinary workflows, supporting a course to fine product development process. In addition, Mechatronics Concept Designer supports rough system validation capabilities for behavior, physical, and process simulation. Early integrated testing of different machine concepts based on multi-disciplinary concept design <i>view</i> (shared functional view)</p> <p>Concept design capabilities in the following disciplines</p> <ul style="list-style-type: none"> <li>„X Mechanical design</li> <li>„X Electrical design</li> <li>„X Automation engineering</li> <li>„X Rough system validation capabilities</li> <li>„X Behavior simulation (logical)</li> <li>„X Physics simulation (rigid-body dynamics)</li> <li>„X Process simulation (interaction of machine design with environment, e.g. material flow)</li> <li>„X Interfaces to detailed design tools (concept design can be used for NX detailed design)</li> <li>„X Interdisciplinary collaboration support (through Teamcenter PLM MD logical model)</li> </ul> <p>Mechatronics Concept Designer comes with a range of standards based translators including STEP, IGES and DXF to allow data to be imported from other systems.</p> <p>Mechatronics Concept Designer is delivered with entry level data management capabilities (NX/Manager) with the embedded Teamcenter interaction, based on the Teamcenter Unified Architecture platform.</p> <p>While, Mechatronics Concept Designer can be run outside of a Teamcenter environment there is a significant increase in value to the customer when running in a full Teamcenter combined with TC Req. Mgmt.</p> <p>Mechatronics Concept Designer enables req. flowdown with machine req. and parameters defined in TC being tracked and validated in the concept design. This close connection allows a true systems engineering approach to design, mapping req. into a functional model through into logical analysis and physical design.</p>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

		<p>Note: When integrating to a Teamcenter environment Mechatronics Concept Designer is only compatible with the Teamcenter unified architecture platform.</p>
NX11430	NX CAM Foundation	<p>NX CAM Foundation The CAM Foundation provides all the basics needed for NC programming:</p> <ul style="list-style-type: none"> <li>- Assembly modeling environment</li> <li>- Translators for IGES, STEP, Parasolid, etc.</li> <li>- Toolpath replay and material verification</li> <li>- Wizard builder</li> <li>- Tool path editor</li> <li>- Shop Documentation</li> <li>- Post processing</li> <li>- Interactive Post Builder</li> </ul>
NX12100	NX Mach 2 Product Design	<p>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.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

NX12440	NX CAD/CAM Turning Foundation	<p>NX CAD/CAM Turning Foundation</p> <p>The CAD/CAM Turning Foundation provides all the basics needed for a Turning seat in the NX CAD/CAM environment:</p> <ul style="list-style-type: none"><li>- Assembly modeling environment</li><li>- Translators for IGES, STEP, Parasolid, etc.</li><li>- Toolpath replay and material verification</li><li>- Generic motion control</li><li>- Holmaking and probing cycle support</li><li>- Wizard builder</li><li>- Tool path editor</li><li>- Shop Documentation</li><li>- Post processing</li><li>- Interactive Post Builder</li><li>- Turning</li><li>- Solid Modeling and Drafting</li><li>- Feature Modeling and basic Freeform</li><li>- User Defined Features</li><li>- Sheet Metal design</li><li>- Quick Check, Web Express, and Xpress Review</li></ul>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX12450</p>	<p>NX CAD/CAM 3 Axis Milling Foundation</p>	<p>NX CAD/CAM 3 Axis Milling Foundation          The CAD/CAM Milling Foundation provides all the basics needed for a Milling seat in the NX CAD/CAM environment:</p> <ul style="list-style-type: none"> <li>- Assembly modeling environment</li> <li>- Translators for IGES, STEP, Parasolid, etc.</li> <li>- Toolpath replay and material verification</li> <li>- Generic motion control</li> <li>- Holmaking and probing cycle support</li> <li>- Wizard builder</li> <li>- Tool path editor</li> <li>- Shop Documentation</li> <li>- Post processing</li> <li>- Interactive Post Builder</li> <li>- 2.5 Axis roughing, profiling, and face milling</li> <li>- 3 Axis surface finishing</li> <li>- NURBS machining</li> <li>- Solid Modeling and Drafting</li> <li>- Feature Modeling and advanced Freeform</li> <li>- User Defined Features</li> <li>- Sheet Metal design</li> <li>- Quick Check, Web Express, and Xpress Review</li> <li>- Geometric tolerancing</li> <li>- Studio visualization</li> <li>- Checkmate</li> </ul>
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<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX12460	NX CAM-only 5 Axis Machining	<p>NX CAM-only 5 Axis Machining</p> <p>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:</p> <ul style="list-style-type: none"> <li>- Assembly modeling environment</li> <li>- Translators for IGES, STEP, Parasolid, etc.</li> <li>- Toolpath replay and material verification</li> <li>- Generic motion control</li> <li>- Holmaking and probing cycle support</li> <li>- Wizard builder</li> <li>- Tool path editor</li> <li>- Shop Documentation</li> <li>- Post processing</li> <li>- Interactive Post Builder</li> <li>- 2.5 Axis roughing, profiling, and face milling</li> <li>- 3 Axis surface finishing</li> <li>- NURBS machining</li> <li>- 5 axis surface machining and swarfing</li> <li>- 5 axis manual machining (sequential milling)</li> <li>- G-code drive machine simulation</li> <li>- Multi-channel program synchronization</li> </ul>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX12500</p>	<p>NX Mach 2 Advanced FEM</p>	<p>NX Mach 2 Advanced FEM is an integrated advanced finite element modeling tool that enables the rapid pre and post processing of component and assembly models. It provides a broad set of tools to aid the user in the development of abstracted geometry for meshing, advanced load and boundary conditions definitions, material definitions, and support of advanced integrated solutions such as non-linear analysis, flow analysis and multi-physics solutions.</p> <p>Additional translators can be added to support Ansys, Nastran, and ABAQUS solvers.</p> <p>NX Mach 2 Advanced FEM includes:</p> <ul style="list-style-type: none"> <li>-Teamcenter – CAD Management</li> <li>-Teamcenter - Visualization Base</li> <li>- XpresReview</li> <li>- Solid &amp; Feature Modeling</li> <li>- Assembly Modeling</li> <li>- Design Logic</li> <li>- Grip Runtime</li> <li>- Knowledge Fusion Runtime</li> <li>- Process Studio runtime license</li> <li>- Translators (IGES, DXF/DWG, STEP 203/214, 2D Exchange)</li> <li>- Rapid Prototyping</li> <li>- Freeform modeling, basic</li> <li>- Web Express</li> <li>- Product Validation</li> <li>- User Defined Features</li> <li>- Freeform Modeling, advanced</li> <li>- Dynamic &amp; Photorealistic Rendering</li> <li>- NX Advanced Finite Element Modeling</li> </ul> <p>NOTE:</p> <p>To upgrade any Mach series product to have full access to Teamcenter capabilities the customer must purchase the required number of Teamcenter author licenses. The number of licenses required is determined by the total number of named users using the Mach seats plus any additional author or consumer licenses required for non-NX users. The total number of author licenses will be equal to, or greater than the number of Mach seats the customer has installed. Customers may NOT have a mixed environment where some users leverage the embedded NX design management licenses and others have Teamcenter Author licenses.</p>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

NX12510	NX Advanced FEM - Add On	<p>NX Advanced FEM - Add On NX Advanced FEM Add On - This product is intended as an add-on to an existing Design seat. NX Advanced FEM is an integrated advanced finite element modeling tool that enables the rapid pre and post processing of component and assembly models. It provides a broad set of tools to aid the user in the development of abstracted geometry for meshing, advanced load and boundary conditions definitions, material definitions, and support of advanced integrated solutions such as non-linear analysis, flow analysis and multi-physics solutions. Additional translators can be added to support Ansys, MSC Nastran and ABAQUS 3rd party solvers. This product is indented as an add-on to an existing NX Mach seat.</p>
NX13100	NX Mach 3 Product Design	<p>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 &amp; 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.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX13200</p>	<p>NX Mach 3 Mold Design</p>	<p>Mach 3 Mold Design helps reduce the time and cost required for mold design by embedding industry and process knowledge, and by leveraging process automation tasks in the context of a managed development environment (MDE), while enabling greater economies of scale for a larger # of customers. It supports team oriented design by enabling multi designers to works concurrently on a single mold design. This approach is an extension of the traditional concept of product/tooling concurrency. With Mach 3 Mold Design, mold design tasks are divided into multi roles that may be completed concurrently. Mach 3 Mold Design integrates and streamlines mold design process by helping users capture and re-use knowledge, as well as offering users an automated step by step guidance through every step of the design process. Mach 3 Mold Design provides adv. parting functionality, customizable standard parts and mold bases, and the associativity throughout the design process. Additionally, Mach 3 Mold Design provides molded part validation with wall thickness checking, automated drawings creations, and automated manufacturing process. All common translators are included, as well as the capabilities to run a variety of automation applications.</p> <p>Mach 3 Mold Design includes a managed development environment powered by TC, with data mgmt. and visualization capabilities for product and process mgmt.</p> <p>Key selling points:</p> <ol style="list-style-type: none"> <li>1. Maximizes productivity through intelligent automation of the mold design process</li> <li>2. Productivity gains are on average 2:1, and in many cases are 10:1</li> <li>3. Ease of use through step by step process guidance</li> <li>4. Molded part validation for manufacturability</li> <li>5. Multi designers can work concurrently on a single mold design</li> <li>6. Standardized but fully customizable process</li> <li>7. Easy creation of custom standard parts libraries</li> <li>8. Full associativity between part and mold</li> <li>9. Auto. generation of BOM and pockets</li> <li>10. Automated drawing creation</li> <li>11. Auto. reproduction of modifications for manufacturability - model comparison and swap, with associativity throughout tool design</li> </ol>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX13210</p>	<p>NX Mach 3 Progressive Die Design</p>	<p>Mach 3 Progressive Die Design shortens the overall progressive die design time by embedding industry &amp; process knowledge, leveraging process automation in a managed development environment supporting concurrent dsgn for insert group dsgn &amp; related downstream tasks. The user interface incorporates industry best practices guiding users through the steps needed to design a die benefiting designers of all skill levels. Product quality is improved by automatic validation. Progressive Die supports creation of automotive progressive dies, providing automotive die base, &amp; standard part catalogs. Common trans are included, as well as the ability to run a variety of automation applications.</p> <p>Includes a managed development environment powered by TC.</p> <p>Mach 3 Progressive Die Design content:</p> <ul style="list-style-type: none"> <li>-Teamcenter Engineering - NX Manager</li> <li>-Teamcenter – CAD Manager Server</li> <li>-Teamcenter - Visualization Base</li> <li>- XpresReview</li> <li>- Solid &amp; Feature Modeling</li> <li>- Assembly Modeling</li> <li>- Dsgn Logic</li> <li>- Grip Runtime</li> <li>- Knowledge Fusion Runtime</li> <li>- Process Studio runtime license</li> <li>- Translators (IGES, DXF/DWG, STEP 203/214, 2D Exchange)</li> <li>- Rapid Prototyping</li> <li>- Freeform modeling, basic</li> <li>- Straight Brake Sheet Metal</li> <li>- Drafting</li> <li>- Web Express</li> <li>- Process Solutions for Stress and Vibration</li> <li>- Check-Mate Runtime</li> <li>- User Defined Features</li> <li>- 3D Annotation (GD&amp;T and PMI)</li> <li>- Dynamic and Photorealistic Rendering</li> <li>- Advanced Assemblies</li> <li>- Freeform Modeling, Advanced</li> <li>- Advance Sheetmetal Design</li> <li>- Progressive Die Wizard</li> </ul> <p>Mach 3 Progressive Die Design is offered with floating license only</p>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX13300</p>	<p>NX Mach 3 Industrial Design</p>	<p>Mach 3 Industrial Design provides customers with the evaluation of a much wider range of design alternatives quickly and accurately, while helping increase innovation capabilities, in the context of a managed development environment (MDE). It combines capabilities of a stand alone surfacing and visualization product, with design for manufacturability, process automation, and quality validation tools. Mach 3 Industrial Design provides users with the interactive freeform curve and surface tools, while providing real-time feedback on curve and surface quality through a suite of diagnostic tools. It also contains an extensive suite of polygon modeling tools, allowing user to work with large scanned data sets as the basis of new designs. Real-time and photo-realistic rendering capabilities are provided for enhanced product visualization and presentation.</p> <p>Mach 3 Industrial Design provides advanced productivity and quality enhancement tools for data reuse, and definition of validation checks. It helps reduce cost by providing tools for defining product and manufacturing information (PMI) directly on 3D models, performing design optimization, and plastic part and casting moldability, including wall-thickness checking. Mach 3 Industrial Design features powerful capabilities for product design, and is supported by innovative technologies like DesignLogic, Direct Modeling eXtensions, Wave, and Knowledge Fusion. It provides customers with the opportunity to incorporate engineering criteria and knowledge into every step of the product development process, and enables knowledge driven validation for improved product and process quality. Additionally, Mach 3 Industrial Design provides straight break sheet metal capabilities. All common translators are included, as well as the capabilities to run a variety of automation applications.</p> <p>Mach 3 Industrial Design includes a managed development environment powered by TC, with data management and visualization capabilities for product and process management</p>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

NX13430	NX Total Machining	<p>NX Total Machining</p> <p>The Total Machining product covers the full breadth of machining capability in the NX CAD/CAM environment:</p> <ul style="list-style-type: none"> <li>- Assembly modeling environment</li> <li>- Translators for IGES, STEP, Parasolid, etc.</li> <li>- Toolpath replay and material verification</li> <li>- Generic motion control</li> <li>- Holmaking and probing cycle support</li> <li>- Wizard builder</li> <li>- Tool path editor</li> <li>- Shop Documentation</li> <li>- Post processing</li> <li>- Interactive Post Builder</li> <li>- Turning</li> <li>- Wire EDM</li> <li>- 2.5 Axis roughing, profiling, and face milling</li> <li>- 3 Axis surface finishing</li> <li>- NURBS machining</li> <li>- 5 axis surface machining and swarfing</li> <li>- 5 axis manual machining (sequential milling)</li> <li>- G-code drive machine simulation</li> <li>- Multi-channel program synchronization</li> <li>- Feature Based Machining Author</li> <li>- Solid Modeling and Drafting</li> <li>- Feature Modeling and advanced Freeform</li> <li>- User Defined Features</li> <li>- Sheet Metal design</li> <li>- Quick Check, Web Express, and Xpress Review</li> <li>- Geometric tolerancing</li> <li>- Studio visualization</li> <li>- Checkmate</li> </ul>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX13440</p>	<p>NX Advanced 5 Axis Machining</p>	<p>The Advanced 5 Axis Machining product provides complete milling capabilities up to and including specialized methods for cutting turbomachinery components. This product is suitable for extensive 5 axis programming of challenging parts and includes:</p> <ul style="list-style-type: none"> <li>- Assembly modeling environment</li> <li>- Translators for IGES, STEP, Parasolid, etc.</li> <li>- Toolpath replay and material verification</li> <li>- Generic motion control</li> <li>- Holmaking and probing cycle support</li> <li>- Wizard builder</li> <li>- Tool path editor</li> <li>- Shop Documentation</li> <li>- Post processing</li> <li>- Interactive Post Builder</li> <li>- 2.5 Axis roughing, profiling, and face milling</li> <li>- 3 Axis surface finishing</li> <li>- NURBS machining</li> <li>- 5 axis surface machining and swarfing</li> <li>- 5 axis manual machining (sequential milling)</li> <li>- 5 axis multi-blade turbomachinery milling</li> <li>- G-code drive machine simulation</li> <li>- Multi-channel program synchronization</li> <li>- Feature Based Machining</li> <li>- Solid Modeling and Drafting</li> <li>- Feature Modeling and advanced Freeform</li> <li>- User Defined Features</li> <li>- Sheet Metal design</li> <li>- Quick Check, Web Express, and Xpress Review</li> <li>- Geometric tolerancing</li> <li>- Studio visualization</li> <li>- Checkmate</li> </ul>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX13500</p>	<p>NX Mach 3 Advanced Simulation</p>	<p>NX Mach 3 Advanced Simulation is an integrated advanced finite element modeling tool that enables the rapid pre- and post- processing of component and assembly models. It provides a broad set of tools to aid the user in the development of abstracted geometry for meshing, advanced load and boundary conditions definitions, material definitions, and support of advanced integrated solutions such as non-linear analysis, flow analysis and multi-physics solutions. It is able to format and submit finite element model analysis problems directly to NX Nastran with the NX Nastran Interface included with this package. Additional translators can be added to support Ansys and ABAQUS 3rd party solvers.</p> <p>NX Mach 3 Advanced Simulation includes NX Nastran Desktop Basic which is the base offering of NX Nastran and provides the underlying foundation product for simulation solution using NX Nastran. It is ideal for customers who need a flexible, powerful and cost effective solver solution. It supports a range of commonly used engineering simulations: Linear Static Structural Analysis, Nonlinear Analysis, Inertia Relief, Normal Modes for Vibration, Structural Buckling, Steady State and Transient Heat Transfer, composites, and spot weld analysis. This bundled version of NX Nastran Desktop differs from the unbundled NX Nastran Desktop product (NXN110) in that the Nastran solver can only be used by one Pre/Post license.</p> <p>NX Mach 3 Advanced Simulation includes:</p> <ul style="list-style-type: none"> <li>-TC – CAD Management</li> <li>-TC - Visualization Base</li> <li>- XpresReview</li> <li>- Solid &amp; Feature Modeling</li> <li>- Assembly Modeling</li> <li>- Design Logic</li> <li>- Grip Runtime</li> <li>- Knowledge Fusion Runtime</li> <li>- Process Studio runtime license</li> <li>- Translators (IGES, DXF/DWG, STEP 203/214, 2D Exchange)</li> <li>- Rapid Prototyping</li> <li>- Freeform modeling, basic</li> <li>- Web Express</li> <li>- Product Validation</li> <li>- User Defined Features</li> <li>- Freeform Modeling, advanced</li> </ul>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

		<ul style="list-style-type: none"> <li>- Dynamic &amp; Photorealistic Rendering</li> <li>- NX Advanced Finite Element Modeling</li> <li>- NX Nastran Basic Bundle</li> <li>- NX Nastran Translator</li> <li>- Stress and Vibration wizards</li> </ul>
NX13510	NX Advanced Simulation - Add On	<p>NX Advanced Simulation Add-On is an integrated advanced finite element modeling tool that enables the rapid pre and post processing of component and assembly models. This product is intended as an add-on to an existing Design seat.</p> <p>NX Advanced Simulation provides a broad set of tools to aid the user in the development of abstracted geometry for meshing, advanced load and boundary conditions definitions, material definitions, and support of advanced integrated solutions such as non-linear analysis, flow analysis and multi-physics solutions. It is able to format and submit finite element model analysis problems directly to NX NASTRAN with the NX Nastran Environment included with this package.</p> <p>NX Nastran Desktop Basic is the base offering of NX Nastran and provides the underlying foundation product for simulation solution using NX Nastran. It is ideal for customers who need a flexible, powerful and cost effective solver solution. It supports a range of commonly used engineering simulations: Linear Static Structural Analysis, Nonlinear Analysis, Inertia Relief, Normal Modes for Vibration, Structural Buckling, Steady State and Transient Heat Transfer, composites, and spot weld analysis. This bundled version of NX Nastran Desktop differs from the unbundled NX Nastran Desktop product (NXN110) in that the Nastran solver can only be used by one Pre/Post license For NX4 the NX Nastran CD set is required for NX Nastran install and will be shipped by customer request only.</p>
NX21001	NX License Borrow Option	<p>The NX License Borrow Option allows users to “borrow” licenses from the license server and to use them while disconnected from the server. When borrowing a license, the user can set the time duration for the borrowing, up to a maximum time of 3 months. When a license is borrowed, it is no longer available on the server until the borrow time expires or it is returned early.</p> <p>* If using a node locked license, the license can only be borrowed on the machine that the license is locked to*</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX24062	NX Integration Classification	<p>NX Integration Classification</p> <p>Delivers the ability for NX designers to dynamically search and retrieve parts and UDF's that have been classified in Teamcenter Classification. The NX designer can:</p> <ul style="list-style-type: none"> <li>- Traverse the classification hierarchy</li> <li>- Search dynamically for a class by name</li> <li>- Search dynamically for a class member based on a class attributes</li> <li>- Retrieve found parts or UDF's directly into the NX session</li> <li>- Classify a part in an NX session into Teamcenter Classification.</li> </ul> <p>For customers that already have concurrent licenses of Teamcenter Classification</p>
NX30100	NX Check-Mate Author	<p>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</p>
NX30101	NX Knowledge Fusion Author	<p>NX Knowledge Fusion Author is the complete Rules Based Modeling and Knowledge Based Engineering development kit. It is ideal for knowledge engineers, senior designers, and programmers. It provides the ability to add any type of engineering rules to a part, thereby creating smart models that are much more robust and useful, and ensured to be sound from an engineering standpoint (such as smart models for product configurators). Once the smart model has been created, it can be accessed and manipulated (within the bounds of the authors intent) through the use of a NX/Knowledge Fusion Sharing license. Knowledge Fusion application can be run by any NX Mach Design, Styling, or Tooling application, as well as the majority of NC Machining applications.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

NX30102	NX Open Dialog Designers	<p>NX Open Dialog Designers provide the application modules, visual dialog builder, libraries, and documentation necessary to interactively construct production quality dialogs for use in the NX environment and supported platforms. NX Open dialog designer consists of two design tools :</p> <p>1) Block Styler - Introduced in NX6, Block Styler provides interactive tools to design block based dialogs</p> <p>2) User Interface Styler - This pre-NX 6 dialog designer tool provides various widgets to construct a dialog for use in NX environment. User Interface Styler should be used to maintain existing dialogs.</p> <p>NX Open application that contain dialogs using NX Open dialog designers can be run by any Mach product</p>
NX30104	NX Open for .NET Author	<p>The NX Open for .NET Author license provides the NX .NET API libraries, documentation, and utility tools required to create .NET custom applications. NX Open for .NET custom applications do not require an equivalent runtime license to execute. Any NX gateway license can execute an NX Open for .NET custom program. Successful execution of a custom program is dependent on the availability, and reservation of, appropriate module licenses.</p>
NX30106	NX Open Toolkits Author	<p>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. To use NX Open for .NET API, Microsoft .NET Framework must be installed on the Windows operating system. Microsoft Visual Studio .NET integrated development environment is recommended for creating and running NX Open .NET executables and dlls. To use NX Open for Java API; Java 2 Platform, Standard Edition (J2SE) must be installed. The Java runtime environment distributed and installed with NX does not include the Software Development Kit (SDK) tools for compiling and debugging NX Open Java programs.</p>



**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

NX30107	NX Open GRIP Author	NX Open GRIP Development provides GRADE (GRIP Advanced Development Environment) for editing, compiling, and linking GRIP Apps (programs). This product is provided as a specific add-on for NX Mach bundles only. All NX Mach bundles include a GRIP Execute license, so no additional GRIP licenses are required to execute GRIP programs
NX30109	NX General Packaging	NX General Packaging is targeted at the Automotive Industry and is a collection of tools that automates many of the tasks associated with the mechanical and occupancy packaging of a vehicle. General Packaging provides tools for checking a vehicle for compliance to SAE standards and local country regulations. In addition to the standards based tools, this toolset includes SpaceFinder which measures the inner volume enclosed by a complex shape or assembly.
NX30110	NX VDA Checker	This module checks the quality of curves and surfaces according to the criteria described in the CAD/CAM Data Quality VDA 4955 standard provided by the Working Group VDA-AK CAD/CAM.
NX30111	NX Advanced Sheet Metal	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, Uniform, 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. Uniform provides the ability to uniform 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 Uniform 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.

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

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.
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	<p>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.</p> <p>The Posture Prediction tool is based on two key databases of information collected in the University of Michigan’s 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 vehicle and the figures anthropometry.</p>
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.

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX30120	NX Viewer	NX Viewer enables users to open, view and measure NX models and drawings in the native NX format. NX Viewer is ideal for users who have access and need to view NX data, but do not intend to save or re-author NX data.
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.
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.

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
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.
NX30134	Content Migration Manager for I-deas	Content Migration Manager migrates data from I-deas to NX. Content Migration Manager migrates I-deas part boundary representation, I-deas part features, I deas assemblies, and I deas drawings to NX. Content Migration Manager operates from within the managed environment of Teamcenter Engineering. Customers will need to be educated and expectations set appropriately as migration manager products are highly complex. The results from feature translation will vary based on the feature types that are used by the customer's specific data. To support this endeavor, Siemens PLM Software maintains a Migration Lab with local contacts in each Zone. The local Zone contacts should provide an Initial Audit in advance of customer purchase of Content Migration Manager. The Initial Audit runs a utility on the customer's existing I deas data and allows Siemens PLM Software to estimate the assembly, part, and drawing expected migration pass rate.
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).

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX30140	HD3D Visual Reporting	<p>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.</p> <p>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.</p> <p>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.</p>
NX30142	NX Ship Design	<p>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.</p>
NX30144	NX Ship Structure Basic Design	<p>Ship Structure Basic Design implements the concept of a structural system which enables the user to quickly model and modify a structural macro view of the ship to support early design stage analysis, drawing generation and easy transition to detail design. The structural system concept enables the user to define decks, bulkheads and the hull as single topologically related objects that are subdivided into sub-systems with independent material and scantlings. These sub-systems are further subdivided by straking seams to define manufacturable parts.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX30145	NX Ship Structure Detail Design	Ship Structure Detail Design provides all of the functionality necessary to define and modify the structural detail parts. It includes parametric detail feature definition for quick placement and modification of brackets, holes, profile cutouts, clips and collars, chamfers, end cuts, corner features, edge features and flanged plates.
NX30146	NX Ship Structure Manufacturing Prep	Ship Structure Manufacturing Preparation provides functionality to create data necessary for structural part fabrication. Manufacturing parts are created from the detail design parts and include unfolded plates geometry, profile inverse bending curves, excess material, marking lines, and shrinkage. Manufacturing Preparation adds information to objects created by other NX Ship Structures products. Unless the customer plans to receive their parts from another company or organization which is creating the source data using NX Ship Structures at least one of the following products will be required: NX30144 – NX Ship Structure Basic Design NX30145 – NX Ship Structure Detail Design
NX30148	NX Routing HVAC	NX HVAC provides 3D tools to create, modify, validate and document HVAC systems design. It optimizes HVAC design workflows through intelligent path creation tools, specifications driven part selection, smart part placement, collision detection, weight calculations, duct splits, duct size calculator and knowledge rules that validate designs against company and industry standards concurrently. The product supports both predefined catalog of HVAC parts and parametric templates that can be modified on-the-fly (smart sizing) to fit any space constraints. Together with other NX capabilities like hangers and sheet metal flat patterns; this product provides a complete lifecycle solution for HVAC design.
NX30149	NX Routing P&ID	NX P&ID provide tools for 2D and 3D schematic layout of piping runs. This product enables intelligent logical definition of pipe runs that drive downstream 3D piping design. Piping specifications, catalog of ISO symbols, flexible & configurable annotation or tagging system combined with highly productive path creation tools provide a complete set of capabilities to create, edit, document and validate logical piping diagrams and associated equipment and instrumentation.

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX30150	NX Rules Based Structure Welding	NX Rules Based Structure Welding application enables customers to define arc welds in the CAD model. This application will generate a lighter weight NX feature to represent the weld enabling very large quantities of welds to be defined and worked with in an NX session. Weld placement is controlled by algorithms that analyze the geometry being welded and identify the most logical location. The complete weld definition may be supplied interactively or by making use of the rules plug-in that allows customers to define and utilize their own weld rules to control weld definition. The welding joint can drive the edge preparation and weld symbol creation. This application works best for prismatic type parts such as plates and extruded profiles.
NX30151	NX Ship Drafting	NX Ship Drafting provides functionality specifically for shipbuilders by providing such functionality as a Frame Bar command, Area Centerline, Drafting Lines, Symbol, Weld Seam, Annotation, Inverse bending line and Shipbuilding baseline dimension option. Shipbuilding Drafting Standards are also included in this module.

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX30153</p>	<p>NX Routing Cabling</p>	<p>NX Routing Cabling provides the tools needed to route electrical cables in a product assembly via typical mechanical parts and supporting equipment such as conduit, and raceways. The software can import a list of cable descriptions for connections between electrical devices. This “connection list” may be created from a 2-D logical design application such as NX Schematics or various other external ECAD-type applications. NX Routing Cabling can automatically find paths which have been routed between the devices, and can assign the cable descriptions to the path segments. The cable descriptions are used to define the cable diameters and to create solid cable models. Actual cable lengths and diameters may be automatically added to the connection list for feedback to upstream ECAD applications or downstream to manufacturing applications. NX Routing Cabling also identifies rule violations such as minimum bend radius and percent fill for cable trays and hangers. The system also provides facilities for production of design documentation such as 2D representations of the cable tray layout at selected points along the route.</p> <p>Capabilities for specifying conduit include over 100 different part families and 1,900 example part specifications for conduit fittings and stock. NX Routing Cabling also includes the ability to specify raceways with over 20 different part families and 8,000 example part specifications for channel fittings and stock.</p> <p>The user may need to add part specifications for their specific parts.</p>
<p>NX30154</p>	<p>NX Routing Base</p>	<p>NX Routing Base provides core capabilities used by all NX Routed System products. This includes all of the general capabilities to create, edit copy and move paths. Also, the capabilities to define standard part libraries and then to select parts from the library and intelligently place the parts within the paths. And finally the ability to define standard stock specifications and assign those specification to paths.</p> <p>***This product is included in some Mach bundles**</p>



**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

NX30158	NX Routing Piping and Tubing	NX Piping and Tubing provides 3D tools to create, modify, validate and document piping and tubing systems design. It optimizes piping and tubing design workflows through intelligent path creation tools, specifications driven part selection, smart part placement, collision detection, weight calculations, and knowledge rules that validate designs against company and industry standards concurrently. The product supports both rigid and flexible pipes and tubes. Together with NX Routing P&ID, it enables users to create and manage intelligent designs that ensure functional and physical compatibility.
NX30160	NX Routing Harness	NX Routing Harness provides all the tools needed to route an electrical wiring harness consisting of bundles of wires in a product assembly. Capabilities also include the ability to specify typical mechanical parts and supporting equipment such as connectors and other devices. The software can also import the wiring characteristics for connections between electrical devices. This “connection list” may be created from a 2-D logical design application such as NX Schematics or other external ECAD systems. NX Routing Harness can automatically traverse paths which have been routed between the devices and assign the wire descriptions to the path segments as specified in the connection list. 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. NX Routing Harness also identifies minimum bend radius violations and produces design and manufacturing documentation such as formboard drawings.
NX30408	NX Turning Add-on	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	NX 5 Axis Machining Add-on 5 Axis Milling functionality, including tip cutting strategies, side cutting strategies, and traditional drive/part strategies.

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX30431	NX Wire EDM Add-on	<p>NX Wire EDM Add-on</p> <p>The Wire EDM add-on provides full-function capabilities for 4-axis wire programming:</p> <ul style="list-style-type: none"> <li>Special engages and retracts for wire threading and breaking</li> <li>No-core options for full material removal</li> </ul>
NX30432	NX 2.5 Axis Milling Add-on	<p>NX 2.5 Axis Milling Add-on</p> <p>The 2.5 Axis Milling Add-on provides a complete suite of 2 D milling capabilities for NC programming:</p> <ul style="list-style-type: none"> <li>- Boundary based methods</li> <li>- Face Milling</li> <li>- Profile cutting</li> <li>- Flexible, solids-based roughing and re-roughing of complex shapes.</li> <li>- Multi-axis positioning to any valid machining coordinate system</li> </ul>
NX30433	NX 3 Axis Milling Add-on	<p>NX 3 Axis Milling Add-on</p> <p>The 3 Axis Milling Add-on provides a complete suite of 3 D milling capabilities for NC programming:</p> <ul style="list-style-type: none"> <li>- Surface Milling, including streamline patterns</li> <li>- Valley and Corner Milling</li> <li>- Facet machining</li> <li>- NURBS output</li> <li>- Multi-axis positioning to any valid machining coordinate system</li> </ul>
NX30434	NX NC Simulation Add-on	<p>NX NC Simulation Add-on</p> <p>The NC Simulation Add-on provides a complete kinematic machine environment for visualizing complex motion:</p> <ul style="list-style-type: none"> <li>- Machine builder applies kinematic rules to machine axes</li> <li>- Collision checking</li> <li>- Synchronization manager for simulation of multi-channel machines</li> <li>- G-code driven simulation uses posted code for the most accurate machine motion</li> </ul>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX30435	NX Feature Based Machining Author Add-on	The Feature Based Machining Author Add-on provides author access to the Machining Knowledge Editor. Without this add-on, the ability to perform feature based automation will be limited to pre-built processes that are delivered with the software. Using the Machining Knowledge Editor, authors will be able to modify processes, build new processes, and define new feature modules.
NX30436	NX Turbomachinery Milling Add-on	This Mach product add-on provides specific 5 axis roughing and finishing patterns suitable for machining axisymmetric blades on hubs, typical of turbomachinery applications. Pumps, fans, impellers, compressors, propellers, turbines and aero engines fit into this class of application.
NX30437	NX CAM Mach-level Data Management Add-on	The NX CAM Teamcenter Client Add-on provides the integration to Teamcenter or Teamcenter Express data management installations that is ordinarily expected from Mach products. (Note that CAM Mach products no longer include any Teamcenter integration - this add-on restores that level of integration): -File/Open access to part files, templates, and output files -Version and revision control Please specify a deployment option for Teamcenter or Teamcenter Express and indicate the appropriate version. <b>**Important:</b> This add-on provides the ordinary Mach-level of Teamcenter integration, but does not provide any additional Teamcenter application capability. To integrate with "named user" Teamcenter installations (TC Author and Consumer licenses) such as would be in place to support Resource Manager, this add-on is not required - instead use the TC30600 - NX Integration since everyone already has Author or Consumer named user licenses.
NX30470	NX On Machine Probing Add-on	The NX On Machine Probing add-on product provides Renishaw Inspection Plus cycle support in a general, extensible implementation. Cycles for 3 axis, single point probes are supported.

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX30472	NX Product Template Studio Author	<p>The Product Template Studio Author license is a tool for adding a user-defined user interface to any parametric NX model. This user interface allows parametric models to be intuitively described and packaged for later reuse.</p> <p>Templates can be used to modularize a design, breaking a complex assembly into manageable modules that can then be recombined as needed to configure complex products.</p> <p>While the Product Template Studio uses Knowledge Fusion technology to create and store these user interfaces, users need no background in Knowledge Fusion, because the entire process is codeless.</p>
NX30474	NX Product Template Studio Consumer	<p>The Product Template Studio Consumer license enables an NX user to display and interact with user-defined template user interfaces created by the Product Template Studio Author application. This consumer license will also enable the template model user interface to be automatically invoked as template models are consumed from the NX Reuse Library.</p>
NX30504	NX Design Simulation	<p>The NX Design Simulation has been specifically designed to provide Designers and Engineers with a tool set that lets the user capture the structural behavior of their solid components in an easy to use, integrated product. This tool set supports a wide range of solutions provided by NX Nastran Desktop Basic for linear statics, vibration, bucking and thermal analysis. In addition it includes a Stress Wizard for a guided procedure to obtain stress from static loads and a Vibration Wizard for a guided procedure to obtain modal frequencies and shapes. This wizard functionality replaces the Strength Wizard capability that was retired in UG11085 and NX30500.</p> <p>NX Design Simulation is built on a scaleable architecture. This gives users the versatility to easily share models between the NX Design Simulation and NX Advanced FEM and Simulation products</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX30521	NX Response Simulation	<p>NX Response Simulation is an interactive, graphical tool in the NX environment to evaluate forced responses of a structure when an impact, transient, frequency (harmonic), random (PSD), or response (shock) spectrum excitations are applied. Dynamic results are generated as with X-Y plots in time or frequency domain. Full field contour response results at specific time or frequencies are also computed.</p> <p>The NX Response Simulation solver, computes response using modal analysis methods with modes that have been previously solved by the NX Nastran FE solver.</p>
NX30522	NX Laminate Composites	<p>NX Laminate Composites provides an integrated capability uniquely tailored to the productive design and evaluation of laminate composite structures. An extension to the NX Advanced FEM package, NX Laminate Composites allows you to create and edit plies and laminates, calculate properties from ply and laminate definitions, perform laminate loads analysis with failure envelopes, export and import MS Excel or other tabular laminate data, apply laminates to finite element models with tools to orient the laminate to the geometry, perform analysis using readily available laminate shell and solid elements, and post-process ply stress, strain and failure indices.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NX30535</p>	<p>Mechatronics Concept Designer for NX</p>	<p>Mechatronics Concept Designer for NX is an add-on module that delivers a functional design approach for designers to build concept models that combine, mechanical, electrical and software components based upon system level product requirements.</p> <p>Mechatronics Concept Designer enables early conceptual design capabilities in the disciplines of Mechanical, Electrical, and Automation design and engineering and their associated parallel interdisciplinary workflows, supporting a course to fine product development process. In addition, Mechatronics Concept Designer supports rough system validation capabilities for behavior, physical, and process simulation. Early integrated testing of different machine concepts based on multi-disciplinary concept design <i>view</i> (shared functional view)</p> <p>Mechatronics Concept Designer builds on the existing mechanical and electrical design tools (modeling, routing etc.) by adding concept design capabilities in the following disciplines:</p> <ul style="list-style-type: none"> <li>„X Automation engineering</li> <li>„X Rough system validation capabilities</li> <li>„X Behavior simulation (logical)</li> <li>„X Physics simulation (rigid-body dynamics)</li> <li>„X Process simulation (interaction of machine design with environment, e.g. material flow)</li> <li>„X Interfaces to detailed design tools (concept design can be used for NX detailed design)</li> <li>„X Interdisciplinary collaboration support (through Teamcenter PLM MD logical model)</li> </ul>
<p>NX30601</p>	<p>NX CATIA V4 Interface (Translator)</p>	<p>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.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX30603	NX Pro/E interface (translator)	The NX Pro/E translator allows the reading of Pro/E solids and surfaces from prt and asm files and creates an NX part or assembly. The user can access Pro/E files from the translator external user interface and from inside of NX using the File Import dialog. This tool gives the user access to the solid or surface geometry in order to accomplish their downstream task. This translator does not support Pro/E assembly features. This translator does not write an NX part files to Pro/E.
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 AND DESCRIPTION**

<p>NX30620</p>	<p>NX One-Step Formability Analysis</p>	<p>NX One-Step Formability Analysis</p> <p>If a Sheet Metal part can be successfully manufactured is an important question the sheet metal part and tool design designers ask themselves. The primary concern is that the parts are properly added with required thickness, blend radii, etc. If any of the surfaces have insufficient thickness or blend radii, the part coming out of the tool will result in cracks or wrinkles.</p> <p>One-step Formability Analysis provides a quick and accurate FEM based Sheet Metal forming solutions, while also providing functionalities for creating flattened blanks &amp; pre-forms from complex freeform geometry.</p> <p>NX One-step formability analysis is also included in Progressive Die Wizard (NX 30205) and NX Die engineering (NX30203).</p> <p>Available capabilities include:</p> <ul style="list-style-type: none"> <li>• Perform complete or intermediate unforming, or flatten a Sheet Metal part.</li> <li>• Quickly output the flattened profile, or springback faceted bodies, for both intermediate unforming or complete part unforming. You can also specify the target region and the uniform region from a different sheet body.</li> <li>• Define different constraint types, both geometry and process, to control unforming.</li> <li>• Predict the risk of forming using thinning, stress, strain, and springback results. The flattened profiles are produced as spline curves and the analysis results are post-processed and displayed in a color-coded plot mode. The analysis report is generated based on the subsequent results.</li> <li>• Create the One-step Uniform feature in the Part Navigator which saves your inputs and settings, and can be edited if required. The data is retrieved when you reopen the part file and run the One-step Formability Analysis command.</li> </ul>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

NX32000	NX Penetration Management	<p>Penetration Management is used by a routed system designer (such as a piping system) to request penetrations through structures that are designed and maintained by a different design group such as a structure group. A penetration request defines the location of the required cutout and initiates a workflow that can be customized by the end user to meet their needs. A typically workflow includes several review steps that must be completed before the cutout can be created to satisfy and close the request. This product can be used by any company that is organized such that different groups are responsible for routed system design and structures design.</p> <p>This module is a specific usage of the TC Change Management system which includes a user interface in NX for creating, managing and responding to penetration requests.</p> <p>This product depends on Teamcenter, as noted in the prerequisites.</p> <p>Penetration Management creates references to objects created by other NX Ship Structures products and Routing products. Unless the customer plans to receive their parts from another company or organization which is creating the source data using NX Ship Structures and Routing the following Ship Structures products will be required to create Plates and at least one of the following Routing products will be required to create Routed Stock:</p> <p>NX30145 – NX Ship Structure Detail Design          NX30147 - NX Routing Piping &amp; Tubing          NX30148 - NX Routing HVAC          NX30152 - NX Routing Harness          NX30153 - NX Routing Cabling</p>
NX33000	NX Platform Design	<p>NX Platform Design enables design of equipment support structures, accessways, walkways, maintenance platforms, and similar steel structures. The product provides specialized tools to maximize a designers’ productivity for modeling platforms, plating of platforms, reinforcements, corner conditions, handrails, stairs and ladders.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NX41000	NX Mach Advantage – Node Locked	<p>NX Mach Advantage – Node Locked</p> <p>Mach Advantage provides an entry level configuration that 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, Direct Modeling eXtensions, and WAVE. Mach Advantage 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 Advantage provides straight break sheet metal capabilities, and comprehensive freeform modeling tools. All common translators are also included.</p> <p>Mach Advantage content:</p> <ul style="list-style-type: none"> <li>-Solid &amp; Feature Modeling</li> <li>-Assembly Modeling</li> <li>-Design Logic</li> <li>-Grip Runtime</li> <li>-Translators (IGES, DXF/DWG, STEP 203/214, 2D Exchange)</li> <li>-Freeform modeling, basic</li> <li>-Straight Brake Sheet Metal</li> <li>-Drafting</li> </ul> <p>Mach Advantage is offered with node-locked license only.</p>
NXN001	NX Nastran Basic	<p>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 nonlinear), 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.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NXN002	NX Nastran Advanced	<p>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.</p>
NXN004	NX Nastran Dynamic Response	<p>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 &amp; transient response analysis, Acoustic 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.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>NXN005</p>	<p>NX Nastran Aeroelasticity</p>	<p>NX Nastran Aeroelasticity provides efficient simulation for the interaction of aerodynamic, inertial and structural forces that are prevalent when any structural is exposed to high, static or time dependant, loads due to the effects of an air stream. This can provide critical performance information and insight into the aerodynamic behavior of airplanes, helicopters, missiles, suspension bridges etc, across a range of Mach performance numbers.</p> <p>A range of static aeroelastic features allow for stress, load, aerodynamic and control system analysis and design using a common finite element representation. In addition to static analysis, simulations can be bolstered with the inclusion of a number dynamic response and flutter simulation methods.</p>
<p>NXN008</p>	<p>NX Nastran Super Elements</p>	<p>NX Nastran Super Elements provide a method to reduce the complexity and resource demands of large analysis problems. Superelement capabilities can be used in all types of analysis including Statics, normal modes, buckling, transient response, frequency response, heat transfer and non-linear analysis.</p> <p>The Superelement technique involves breaking down a large structure into a set of smaller substructures known as superelements. The simulation results from Superelements can be processed individually or all at once. These results can then be combined into a final solution, for the model as a whole.</p> <p>This has the advantage that computer resource requirements are lessened and the entire simulation can be broken into smaller simulation pieces which can be undertaken by different product development groups, without necessarily revealing proprietary modeling information.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
NXN009	NX Nastran DMAP	<p>Based on MSC. Nastran, NX Nastran DMAP (Direct Matrix Abstraction Program) provides a sophisticated programming language that allows users to expand and customize NX Nastrans capabilities by writing their own applications and installing their own custom modules. NX Nastran DMAP comes with its own compilers and grammatical rules that are deeply linked into the core capabilities of NX Nastran. In fact each type of analysis in NX Nastran is based on a pre-packaged collection of hundreds or thousands of DMAP commands.</p> <p>This extreme flexibility allows users to modify the normal flow of a solution sequence and provides NX Nastran customers with a way to take more advantage of NX. Nastran by adding more capabilities, integrating NX Nastran into other applications and customizing NX Nastran for specific applications.</p>
NXN010	NX Nastran DMP	<p>NX Nastran DMP Add-on module to NX Nastran Basic (NXN001) NX Nastran DMP enables parallel processing using distributed memory. Intended for use on cluster hardware systems, this is a very efficient approach for solving very large models. One license of NX Nastran DMP can be used to spawn a solve over as many processors as wanted. DMP solutions are available for static solves (SOL 101), modal eigenvalue solves (SOL 103), and modal dynamic response solves (SOL 111 and 112). For the modal solutions, the partitioning can be performed over the frequency domain, geometry domain, or a combination of both.</p>
NXN110	NX Nastran Desktop	<p>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.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

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.
NXN201	NX Nastran Quick Reference Guide	NX Nastran Bound Hard Copy of Quick Reference Guide A two-volume paperback of the NX Nastran Quick Reference Guide. Contains all the details and formats for the entries in the NX Nastran bulk data file. Entries are organized alphabetically in an easy too look up format.
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.

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
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.
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. NOTE: This product is available on Windows Intel/AMD 32-bit which is delivered to all customers but can be installed and runs on 64 systems.

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

SE320TC-ENG	Solid Edge Classic-Floating (Unique Host ID Method)	Solid Edge Classic- Floating (Unique Host ID Method) Powerful 3D CAD 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. Translators for: DXF, DWG, DGN, SAT, IGES, STEP, SLDPRT (3D), NX, EMS, MDS, STL and XML. Also data migration tools for Pro-E, Inventor, I-DEAS and Mechanical Desk Top where a donor system license exists). NOTE: This product is available on Windows Intel/AMD 64-bit. 64 bit is recommended for customers currently exceeding 4 GB RAM limit of 32 bit Solid Edge. Both 32 and 64 bit versions are delivered to customers. The following are not supported on the 64-bit edition.
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.



<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
SE360-ENG	Solid Edge Wire Harness Design Node Locked	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	Solid Edge Wire Harness Design Floating 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.
SE370-ENG	Solid Edge Insight Node Locked	Solid Edge Insight Solid Edge Insight is a dedicated product design management solution that provides a standardized, pre-defined solution for well defined workgroups using Solid Edge. Insight uses standard Windows technology to deliver embedded assembly and BOM management, revisioning, release processes, and collaboration tools.
SE371-ENG	Solid Edge Insight Floating	Solid Edge Insight Floating Solid Edge Insight is a dedicated product design management solution that provides a standardized, pre-defined solution for well defined workgroups using Solid Edge. Insight uses standard Windows technology to deliver embedded assembly and BOM management, revisioning, release processes, and collaboration tools.

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
SE375F-ENG	Solid Edge Embedded Client - Floating	<p>Solid Edge Embedded Client provides a very tight integration between Teamcenter Engineering or Express and Solid Edge. It supports access to Teamcenter via the Solid Edge interface, enabling functionality such as vaulting, check-in/check-out, revision management, attribute synchronization, searching, and generation of Teamcenter visualization files. It also includes an advanced capability to edit assembly structures outside of the Solid Edge CAD user interface. Such structure editing does not require a Solid Edge license pre-requisite as Solid Edge Embedded Client can be installed standalone for this specific purpose, but all other uses of Solid Edge Embedded Client require a Solid Edge license.</p> <p>Notes: 1) It is recommended that new customers purchase SE320TC as their prerequisite Solid Edge so that all products can be bought on a single Sold-To and will use a single host-ID method for licensing.</p>
SE377F	Solid Edge/CATIA V5 Translator Floating	<p>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.</p>
SE377N	Solid Edge/CATIA V5 Translator Node Locked	<p>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.</p>
SE388F-ENG	Solid Edge Premium - Floating	<p>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:</p> <ul style="list-style-type: none"> <li>. Solid Edge Simulation</li> <li>. Solid Edge XpresRoute</li> <li>. Solid Edge Wire Harness Design</li> </ul>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
SE388N-ENG	Solid Edge Premium - Node Locked	<p>Solid Edge Premium – Node Locked</p> <p>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:</p> <ul style="list-style-type: none"> <li>. Solid Edge Simulation</li> <li>. Solid Edge XpresRoute</li> <li>. Solid Edge Wire Harness Design</li> </ul>
TC010231	Change Management User	<p>The change management module enables Teamcenter users to initiate, administer, review/approve and execute product changes seamlessly across the 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.</p> <p>Change management supports a repeatable, closed loop process that allows organizations to apply the appropriate level of rigor and control for each change based on the impacted business objects and the cost and risk of the change.</p> <p>The change management user provides capabilities to create change requests or change notices (including any supporting information), to create work breakdown structures (schedules) for complex changes, to make interactive metadata updates to any change object, to update supporting information to any folder of any change object, and to rollup the related business items from the schedule tasks to the top-level change objects.</p>
TC030112	Functional Safety Template	<p>The Functional Safety Template for ISO 26262 compliance helps customers manage the automotive E/E system development processes as specified by the ISO26262 standard and generates all the key work products required for compliance. The end deliverable of the Template is the safety case for ISO26262 compliance.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>TC030201</p>	<p>Teamcenter Systems Engineering (Unified)</p>	<p>Teamcenter systems architecting/engineering solution integrates early product development with the entire product lifecycle allowing organizations to capture customer needs, develop and evaluate alternative product architectures that meet those needs, and drive those architecture decisions throughout the lifecycle. Features include: capture of multiple product decompositions, function/logical design, interface development and management, diagramming, trade studies, budget/targets allocation, data dictionary, signal/message allocation, and design document generation from a systems oriented user interface. When combined with Requirements Management solution, users can view end-to-end traceability (from customer sources down through design decisions and implementation execution) providing cross-domain visibility across the product lifecycle.</p>
<p>TC030301</p>	<p>Schedule Manager User</p>	<p>With schedule manager, team leaders can create project plans with a work breakdown structure (schedule task) hierarchy from best-practice schedule templates. Team members can be assigned to schedule tasks, and by using workflow, the team members can receive their work packages, including deliverables, in their Inbox in My Teamcenter. Team members can update their schedule task assignments and team leaders can track the progress of the schedule and replan it as required.</p> <p>Product features include the ability to:</p> <ul style="list-style-type: none"> <li>- create schedules ad hoc or from templates</li> <li>- assign disciplines or users to schedule tasks</li> <li>- assign deliverables to schedule tasks</li> <li>- automate schedule tasks via workflows</li> <li>- manage complex schedules through cross-schedule relationships</li> <li>- manage large collections of schedules through the program view feature</li> <li>- estimate variable and fixed costs for a schedule</li> <li>- trace-link requirements to schedule tasks</li> <li>- perform critical path analysis, finish date scheduling and other core project management activities</li> <li>- customize schedule manager business rules via BMIDE</li> </ul>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

TC030401	Classification User	<p>Classification User</p> <p>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.</p> <p>Classification User allows a named user to; create and modify classification hierarchies, define classification attributes and the allowable values, define classification views, and classify objects in the classification hierarchy which includes assigning attribute values.</p> <p>A Classification User license is NOT required to view or search the classification hierarchy (which includes finding classified objects and viewing associated attribute values).</p>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>TC030701</p>	<p>Product Configuration User</p>	<p>Product Configuration User enables a named user to introduce and manage variability 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.</p> <p>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.</p> <p>Authoring Activities</p> <ul style="list-style-type: none"> <li>o Creating, modifying and saving options</li> <li>o Creating, modifying or saving variant Items, e.g. non-variant parts/assemblies based on option selection applied to filter the variant/generic structure</li> <li>o Creating, modifying and saving Architecture breakdowns</li> <li>o Creating and applying Named Variant Expressions (NVE's)/ variant conditions</li> <li>o Creating and modifying other variant rules (error checks, derived values)</li> </ul> <p>Consumer Activities</p> <ul style="list-style-type: none"> <li>o Viewing and selecting available Options and Option Values for a given structure</li> <li>o Apply a set of option selections to obtain a filtered generic product structure</li> <li>o Viewing a product architecture and its associated solutions</li> <li>o Exercise Variant Expressions (rules which determine allowable Option combinations, rules which derive Option Values based on the value of another selected option, and conditions which control the content of the configured variant structure)</li> <li>o Create Saved Variant Rule which is a valid set of Option Values for a particular Variant</li> </ul>
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<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
TC031101	Embedded Software Management User	<p>Authoring consolidated ?as designed and developed? Software binaries/Hardware Product Structures with all Software and related E/E artifacts managed in a Single Master Vault. Authoring Software/Hardware dependencies and traceability to E/E BOM to Product for lifetime. Authoring Messages, Signals and Connections.</p> <p>Product Features:</p> <ul style="list-style-type: none"> <li>- Author Software and related E/E artifacts managed in a Single Master Vault</li> <li>- Software as ?part? supporting different types</li> <li>- Consolidated ?as designed and developed? E/E Product Structure</li> <li>- Provide object relationships: Embedded, Dependency/Compatibility, Signal Connection to Port, Signal to Message, Wiring</li> <li>- Software BOM configuration; 150% BOM with Option and Variant management</li> <li>- Enable automatic generation of software packages for valid SW-HW BOM configuration</li> <li>- Change and Issue Management; Impact analysis of Software Changes; Track ?as modified? data for all SW/HW in service</li> <li>- Manage SW/HW Dependency and Compatibility information for complex distributed functions</li> <li>- Complete Traceability of full E/E BOM to Customer Vehicle for lifetime</li> <li>- Enable Design Reuse at All Levels</li> <li>- Standardized interface for Authors of Binaries</li> <li>- Workflow Control of software Release and Acceptance from suppliers</li> <li>- Web based access for upload/download - i.e. Suppliers, Dealers</li> </ul>
TC033011	Aerospace & Defense Solution Author	<p>The Aerospace and Defense Solution provides a complete set of product knowledge management capabilities that meet the aerospace and defense industry's special needs for program driven change management, audit management, scheduling, document management, and CDRL/SDRL data management. The solution supports the concurrent development of products via integrated project teams. This author product provides full creation, edit, query, print, and view functionality.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
TC033012	Aerospace & Defense Solution Consumer	The Aerospace and Defense Solution provides a complete set of product knowledge management capabilities that meet the aerospace and defense industry's special needs for program driven change management, audit management, scheduling, document management, and CDRL/SDRL data management. The solution supports the concurrent development of products via integrated project teams. This consumer product provides limited creation but full query, print, and view functionality.
TC10101	Teamcenter Author	A Teamcenter Author license provides full functionality on a named user basis. Capabilities offered: Access to full core/foundation functionality on a full time named-user basis. The user license provides data creation and modification for product and process information. Users with a primary role that require daily access to Teamcenter with any data authoring should be provided with an Author seat. Each named user license requires an appropriate database license for Oracle, Microsoft SQL Server or DB2.
TC10102	Teamcenter Consumer	A consumer user's primary interaction with Teamcenter is to search the environment to locate product data that has been authored and published by other users. Consumer users typically require permission to review, approve and recommend changes to information contained in the environment. These users traditionally don't require a full understanding of the environment's functionality. Instead, they use a subset of the environment's capabilities to perform tasks assigned to them.



**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>TC14003</p>	<p>Teamcenter Express Consumer</p>	<p>Teamcenter Express Consumer          The Teamcenter Express Consumer license provides a named individual access for viewing product and process information, as well as update capabilities for approving, rejecting, or commenting on workflow procedures within Teamcenter Express.  <b>ADDITIONAL MODULES AVAILABLE:</b>          - Classification          - Multi-Site          - ERP Integration          There are four levels of Teamcenter Express user license that correspond to the different roles within a company.          - Teamcenter Express Author is a full PDM user role for authoring and consuming product information from any interface to Teamcenter Express including the rich and thin clients or any application client that has access to Teamcenter Express such as Solid Edge, NX, and Windows Explorer. Customers must have at least one Author or Professional license to enable Teamcenter Express system administration capabilities.          - Teamcenter Express Professional is a full PDM user role for authoring and consuming product information from any interface to Teamcenter Express including the rich and thin clients, but is intended for the non-CAD user.          - Teamcenter Express Consumer license enables viewing, approving, rejecting or commenting on product and process information.          - Teamcenter Express Shop Floor Viewer license provides shop floor access to view and interact with Teamcenter Express data.          Each named user license requires a client license for Microsoft SQL Server. Microsoft SQL Server is NOT INCLUDED, but can be purchased as a separate product from UGS.          It is not permitted to mix Teamcenter Express and Teamcenter Engineering user licenses in a single install.</p>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>TC14004</p>	<p>Teamcenter Express Shop Floor Viewer</p>	<p>Teamcenter Express Shop Floor Viewer          The Teamcenter Express Shop Floor Viewer license provides shop floor access to view and interact with Teamcenter Express data. The Teamcenter Express Shop Floor Viewer is a lightweight viewer that allows users to:</p> <ul style="list-style-type: none"> <li>• Search for needed engineering data</li> <li>• Perform a Where Used to determine product usage</li> <li>• Visualize and perform measurements on 2D and 3D product data</li> <li>• Print and plot</li> </ul> <p>There are four levels of Teamcenter Express user license that correspond to the different roles within a company.</p> <ul style="list-style-type: none"> <li>- Teamcenter Express Author is a full PDM user role for authoring and consuming product information from any interface to Teamcenter Express including the rich and thin clients or any application client that has access to Teamcenter Express such as Solid Edge, NX, and Windows Explorer. Customers must have at least one Author or Professional license to enable Teamcenter Express system administration capabilities.</li> <li>- Teamcenter Express Professional is a full PDM user role for authoring and consuming product information from any interface to Teamcenter Express including the rich and thin clients, but is intended for the non-CAD user.</li> <li>- Teamcenter Express Consumer license enables viewing, approving, rejecting or commenting on product and process information.</li> <li>- Teamcenter Express Shop Floor Viewer license provides shop floor access to view and interact with Teamcenter Express data.</li> </ul> <p>Each install of Teamcenter Express requires a client license for Microsoft SQL Server. Microsoft SQL Server is NOT INCLUDED, but can be purchased as a separate product from Siemens PLM Software.</p> <p>It is not permitted to mix Teamcenter Express and other Teamcenter user licenses in a single install.</p>
<p>TC1DOTC</p>	<p>Teamcenter Deployment</p>	<p>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.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

TC20610	Visualization Standard	<p>Teamcenter® Visualization Standard provides named user access to the following deployments of Teamcenter Visualization connected to Teamcenter:</p> <ul style="list-style-type: none"> <li>- Visualization application integrated with Teamcenter</li> <li>- Visualization embedded into Teamcenter rich client</li> <li>- iSeries web client Visualization integrated with Teamcenter</li> </ul> <p>In additional to the features included with a Teamcenter user license, Teamcenter Visualization Standard service level includes:</p> <ul style="list-style-type: none"> <li>- Visualize part and assembly properties and layer information</li> <li>- Visualize PMI</li> <li>- Advanced 3D visualization tools, including part selection, dynamic highlighting, part visibility control, and user-defined views</li> <li>- Advanced 3D measurement</li> <li>- 3D markup tools that can include URLs and 3D geometric dimensioning and tolerancing (GD&amp;T) symbols</li> <li>- Direct read of VRML and STL files</li> <li>- Explore navigation mode</li> <li>- Snapshots</li> <li>- Image capture</li> <li>- Send email</li> <li>- Enhanced 3D session and conferencing</li> </ul>
TC20716	Lightweight Package Exchange	<p>The Lightweight Package Exchange option is meant to support customers in an ad hoc, unmanaged visualization collaboration process where they will be sending content via email. This product enables a very simple workflow for lightweight file collaboration. The output package file can be consumed by any Teamcenter Visualization viewer as well as the JT2Go viewer. Receivers of the package file can either “view only” using JT2Go or if they have a version of Teamcenter Visualization that supports 3D markups, they could view and markup the JT file and then send it back.</p>
TC20717	Design for Assembly ECAD Viewer Add-On	<p>The Design for Assembly module is a add on module to ECAD Visualization, provide the means for evaluating a PCB design to ensure it can be manufactured It allows for Defining rules, Rule evaluation, Viewing DFA errors by PCB component highlighting, Saving rules and rule results, Generating reports of DFA results</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

TC20755	Visualization Navigation and Reporting	<p>Visualization Navigation and Reporting Add-on module to extend more visual access to the data managed by Teamcenter. Product structures can be navigated much more easily and faster with JT representations pre-cached at each of the assembly levels. Much more intuitive and visual access to metadata with the ability to report information through color-coding directly on the 3D geometry. 3D “reports” can be defined with color-coding based on rules applied to the metadata such as red for parts that are not released and green for ones released. The user benefit is correlation between spatial and attribute information that makes those reports easy to understand.</p>
TC21205	Community Collaboration Server	<p>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.</p>
TC30600	NX Embedded Client	<p>NX Embedded Client provides a CAD system integration between Teamcenter and NX products including NX, and NX I-deas. It allows Teamcenter users to invoke NX products from Teamcenter and manage NX product data. It also supports access to Teamcenter via the NX product user interfaces enabling functionality such as vaulting, check-in/check-out, revision management, attribute synchronization, and searching. It also includes translation capabilities to generate visualization files. The number of Integration for NX licenses purchased should be equal to the number of NX product licenses. Note that NX Mach products include the Embedded NX Client.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
TC30601	NX 4GD Embedded Client	NX 4GD Embedded Client allows users of 4th Generation Design (4GD) to invoke NX 4GD products from Teamcenter and manage associated 4GD product data in Teamcenter. It is required by the many NX applications that support 4GD, and is needed for NX 4GD functionality that operates on 4GD data constructs i.e. Collaborative Designs, Worksets, Subsets, Design Elements, and Design Features. The number of NX 4GD Embedded Client licenses purchased should be equal to the number of NX Embedded Client product licenses. Note that NX Mach products include the NX Embedded Client.
TC30611	Teamcenter Integration for AutoCAD	Teamcenter Integration for AutoCAD adds full AutoCAD data management capabilities into your existing Teamcenter environment. AutoCAD dwg, xref, and all neutral file formats are supported and managed
TC31008	Integration for Mentor PADS	Integration for Mentor PADS The integration for Mentor delivers the ability to check native PCB design data in and out of Teamcenter and extract BOM information from the PCB schematic or board layout file. This integration utilizes the single container method for storing the Schematic and Board Layout Data Set in Teamcenter.
TC31015	Integration for Altium Designer	The integration for Altium Designer delivers the ability to check native PCB design data in and out of Teamcenter and extract BOM information from the PCB schematic or board layout file.
TC31016	Integration for Cadence ORCAD Capture & Capture CIS Schematic	The integration for Cadence ORCAD Capture & Capture CIS schematic delivers the ability to check native Schematic design data in and out of Teamcenter and extract BOM information from the PCB schematic
TC31050	Teamcenter Gateway for EDA	The EDA Gateway is a generic interface that provides the ability to check native PCB design data in and out of Teamcenter and extract BOM information from the PCB schematic or board layout file from those PCB design tools that currently do not have an embedded integration. The EDA Gateway will require configuration by the customer or Siemens Service to provide the automated interaction with Teamcenter.

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

TC31121	Mechatronics Electrical Author	The Mechatronics Electrical Author is required for those users who will create, edit or use the Wire Harness information in Teamcenter. This information can be entered either manually or through integrations with NX or 3rd party Wire Harness design tools. The integrations to Teamcenter are sold separately by the Wire Harness design tool companies and NX.
TC31138	EDA Library Manager Cadence Allegro	<p>EDA Library Manager Cadence Allegro</p> <p>This module allows Teamcenter to act as a reference library for Cadence Allegro. The module integrates Teamcenter and the ECAD tool's library. It allows an ECAD tool librarian to import ECAD parts into Teamcenter and then classify, edit, approve and release libraries. When Teamcenter libraries are released, the PCB tool librarian can synchronize the Teamcenter reference library with the local ECAD tool library. From the PCB tool, ECAD designers can use the synchronized library parts to populate ECAD designs with parts from Teamcenter and their related symbols/footprints.</p> <p>This module is licensed Per Product ("P"), one license of this module is required for each ECAD tool license following the licensing model used by the ECAD system it integrates with – which is either concurrent or named. In addition, any named, non-ECAD users that manage content</p>
TC31139	EDA Library Manager Mentor Board Station	<p>EDA Library Manager Mentor Board Station</p> <p>This module allows Teamcenter to act as a reference library for Mentor Board Station. The module integrates Teamcenter and the ECAD tool's library. It allows an ECAD tool librarian to import ECAD parts into Teamcenter and then classify, edit, approve and release libraries. When Teamcenter libraries are released, the PCB tool librarian can synchronize the Teamcenter reference library with the local ECAD tool library. From the PCB tool, ECAD designers can use the synchronized library parts to populate ECAD designs with parts from Teamcenter and their related symbols/footprints.</p> <p>This module is licensed Per Product ("P"), one license of this module is required for each ECAD tool license following the licensing model used by the ECAD system it integrates with – which is either concurrent or named. In addition, any named, non-ECAD users that manage content in the ECAD Reference Library (e.g., purchasing or sourcing users) require a license of this module.</p>

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>TC31140</p>	<p>EDA Library Manager Mentor Expedition</p>	<p>EDA Library Manager Mentor Expedition  This integration neither supports Mentor DXDatabook library nor DMS. It integrates with the Mentor Expedition Library Manager product, allowing Teamcenter to act as a reference library.  It allows an ECAD tool librarian to import ECAD parts into Teamcenter and then classify, edit, approve and release libraries. When Teamcenter libraries are released, the PCB tool librarian can synchronize the Teamcenter reference library with the local ECAD tool library. From the PCB tool, ECAD designers can use the synchronized library parts to populate ECAD designs with parts from Teamcenter and their related symbols/footprints.  This module is licensed Per Product (“P”), one license of this module is required for each ECAD tool license following the licensing model used by the ECAD system it integrates with – which is either concurrent or named. In addition, any named, non-ECAD users that manage content in the ECAD Reference Library (e.g., purchasing or sourcing users) require a license of this module.</p>
<p>TC31141</p>	<p>EDA Library Manager Mentor PADS</p>	<p>EDA Library Manager Mentor PADS  This module allows Teamcenter to act as a reference library for Mentor PADS. The module integrates Teamcenter and the ECAD tool’s library. It allows an ECAD tool librarian to import ECAD parts into Teamcenter and then classify, edit, approve and release libraries. When Teamcenter libraries are released, the PCB tool librarian can synchronize the Teamcenter reference library with the local ECAD tool library. From the PCB tool, ECAD designers can use the synchronized library parts to populate ECAD designs with parts from Teamcenter and their related symbols/footprints.  This module is licensed Per Product (“P”), one license of this module is required for each ECAD tool license following the licensing model used by the ECAD system it integrates with – which is either concurrent or named. In addition, any named, non-ECAD users that manage content in the ECAD Reference Library (e.g., purchasing or sourcing users) require a license of this module.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
TC31142	Embedded Software Design Management	<p>The Embedded Software Design Management module extends Teamcenter software lifecycle management capabilities with new OOTB software business objects, dedicated object relations and lifecycle functions. It enables to create software design components to represent self-contain and reusable software design elements and manage the lifecycle of those elements independently of the released software and other product parts. Embedded Software Design Management also provides predefined relationships to map software design components to the released software parts (binaries, firmware, VHDL/Verilog, PLC software blocks...), to software models (class model, UML/SysML model...), to software functions, to hardware, to software calibration and configuration parameters, and product requirements in order to offer full traceability in scope of software change and configuration management in product context. Applications for Embedded Software Design Management are various and apply to nearly all industries involved in software design and development. Few examples to mention are: management of software design blocks within PLCs or other kind of electronics controllers, management of software deliverables within semiconductor IP products, management of source code baseline/codeline, management of supplier's software deliveries, management of software embedded into FPGA/ASICs. Embedded Software Design Management extends Teamcenter Mechatronics data modeling and is integrated with other Teamcenter software lifecycle capabilities from the Software Binary Management (ESM), the SCM integration, the Software Calibration and the Software Configuration Data Management (CCDM) modules. It is recommended to use the Embedded Software Design Management module in conjunction with these other modules.</p>
TC31143	ECAD Translator for Cadence Allegro Board Layout	<p>ECAD Translator for Cadence Allegro Board Layout The translator for Cadence Allegro Board Layout converts a native PCB ASCII design file from Cadence Allegro to a Teamcenter neutral file format that is required to visualize a PCB within Teamcenter ECAD Visualization 2D.</p>
TC31144	ECAD Translator for Cadence Orcad Board Layout	<p>ECAD Translator for Cadence Orcad Board Layout The translator for Cadence Orcad Board Layout converts a native PCB ASCII design file from Cadence Orcad to a Teamcenter neutral file format that is required to visualize a PCB within Teamcenter ECAD Visualization 2D.</p>



<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
TC31145	ECAD Translator for Mentor Board Station Board Layout	ECAD Translator for Mentor Board Station Board Layout The translator for Mentor Board Station Board Layout converts a native PCB ASCII design file from Mentor Board Station to a Teamcenter neutral file format that is required to visualize a PCB within Teamcenter ECAD Visualization 2D.
TC31146	ECAD Translator for Mentor Expedition Board Layout	ECAD Translator for Mentor Expedition Board Layout The translator for Mentor Expedition Board Layout converts a native PCB ASCII design file from Mentor Expedition to a Teamcenter neutral file format that is required to visualize a PCB within Teamcenter ECAD Visualization 2D.
TC31147	ECAD Translator for Mentor PADS Board Layout	ECAD Translator for Mentor PADS Board Layout The translator for Mentor PADS Board Layout converts a native PCB ASCII design file from Mentor PADS to a Teamcenter neutral file format that is required to visualize a PCB within Teamcenter ECAD Visualization 2D.
TC31148	ECAD Translator for Protel P-CAD Board Layout	ECAD Translator for Protel P-CAD Board Layout The translator for Protel P-CAD Board Layout converts a native PCB ASCII design file from Protel P-CAD to a Teamcenter neutral file format that is required to visualize a PCB within Teamcenter ECAD Visualization 2D.
TC31153	ECAD Translator for Zuken CR3000 Board Layout	ECAD Translator for Zuken CR3000 Board Layout The translator for Zuken CR3000 Board Layout converts a native PCB ASCII design file from Zuken CR3000 to a Teamcenter neutral file format that is required to visualize a PCB within Teamcenter ECAD Visualization 2D.
TC31154	ECAD Translator for Zuken CR5000 Board Layout	ECAD Translator for Zuken CR5000 Board Layout The translator for Zuken CR5000 Board Layout converts a native PCB ASCII design file from Zuken CR5000 to a Teamcenter neutral file format that is required to visualize a PCB within Teamcenter ECAD Visualization 2D.
TC31155	ECAD Translator for Schematic EDIF 300	ECAD Translator for Schematic EDIF 300 The translator for Schematic EDIF 300 converts a EDIF 200 schematic design file from any EDA system to a Teamcenter neutral file format that is required to visualize a Schematic within Teamcenter ECAD Visualization 2D

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

TC31156	ECAD Translator for Schematic EDIF 200	ECAD Translator for Schematic EDIF 200 The translator for Schematic EDIF 200 converts a EDIF 200 schematic design file from any EDA system to a Teamcenter neutral file format that is required to visualize a Schematic within Teamcenter ECAD Visualization 2D.
TC31165	SW Calibration & Config. Data Mgmt User	SW Calibration & Config. Data Mgmt User Software Calibration and Configuration data management provides management into Teamcenter product structure and architecture of Embedded Software Calibration and Configuration parameters for any industry calibrating and configuring software into products. Using this solution, engineers can define dictionary of parameters, specify relevant parameters for a particular product configuration and variant, define parameter values, track changes on both parameters and values and export parameters and values for downstream processes such as calibration experimentation process.
TC50100	Teamcenter Rapid Start	Teamcenter Rapid Start is a pre-configured version of Teamcenter, easy-to-use, and easy-to-deploy Product Data Management solution that delivers a pre-configured yet extensible environment. As a preconfigured version of Teamcenter, it addresses the most common PDM functionality needs of small and mid-sized companies offered: - Application and Command suppression- pre-configured organization structure- Intelligent part numbering- pre-configured workflows- pre-configured reports- Basic Change Management- Basic data exchange, etc.
TCCACAD105	Teamcenter Community Collaboration Bundle	Teamcenter Community Collaboration Bundle NOTE: Per seat license file type Bundle Includes: TC21200 Community Collaboration TC21205 Community Collaboration Server NOTE: The Teamcenter Community Collaboration Bundles is an add-on the Teamcenter Unified Bundle and must be ordered with the TCUACAD100 Bundle. This add-on has no cost associated with it.

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
TCCACAD205	Teamcenter Community Collaboration Bundle	Teamcenter Community Collaboration NOTE: site campus license file type Bundle Includes: TC21200 Community Collaboration TC21205 Community Collaboration Server NOTE: The Teamcenter Community Collaboration Bundles is an add-on the Teamcenter Unified Bundle and must be ordered with the TCUACAD200 Bundle. This add-on has no cost associated with it.

**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

<p>TCM24804</p>	<p>Teamcenter Manufacturing Documentation</p>	<p>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.</p> <p>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.</p> <p>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        .</p> <p>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.</p> <p>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</p>
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**SOFTWARE PART NUMBER & NAME AND DESCRIPTION**

TCM55010	Teamcenter Manufacturing Resource Manager	<p>Teamcenter Manufacturing Resource Manager</p> <p>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.</p> <p>The functionality provided by this product is as follows:</p> <ul style="list-style-type: none"> <li>- Creating resources</li> <li>- Creating resource assemblies</li> <li>- Classify resources</li> <li>- Create 3D graphics of resources</li> <li>- Guided Component Search for knowledge based creation of resources assemblies</li> <li>- Generating reports</li> <li>- Performing Where used checks</li> <li>-View, edit and author documents which are related to the resources</li> </ul>
TCM55012	NX CAM Embedded Client	<p>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.</p> <p>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.</p>
UG10000-WISD	NX S/W and Doc Media Site Set - Windows	<p>The CDROM media site set will consist of one CDROM. This CDROM will contain ALL NX software products that are licensed controlled. When a new software product is released, a new CDROM will be made for each platform.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
UG10100	NX Gateway	<p>NX Gateway is a seat of NX. It provides a Motif based interactive environment for all NX products. Operations supported while in the NX Gateway product include: opening existing NX part files, creating new part files, plotting drawings and screen layouts and the import/export of CGM (Computer Graphics Metafiles). NX Gateway also provides support for layer control, view definitions and screen layouts, object information and analysis, display control, access to the HELP system, blank/unblank objects, shading of solid and surfaced models, etc. NX Gateway also includes an intuitive spreadsheet and the popular user tools customization tool. NX Gateway is a prerequisite for all other interactive applications.</p> <p>Teamcenter Community CAD Collaboration (TCC23830) allows multiple NX sessions to be connected over the internet. NX Gateway includes capabilities to exchange design information with other NX sessions that are connected with Teamcenter Community CAD Collaboration.</p>
UG10660	NX Render	<p>NX Render provides advanced rendering tools including quality levels, view rendering, assembly rendering, shadowing, radiosity and special effects to visually enhance CAD models. NX Render is fully integrated with other NX modules. Product Prerequisites: UG10100</p>
UG10662	NX Freeform Shape	<p>NX Freeform Shape extends capabilities of the NX Freeform module. It offers Industrial Designers the types of surface creation and manipulation techniques often used in the conceptual design stage of product development. An example would be the direct surface manipulation tools that provide real-time graphical feedback.</p>
UG10665	NX Visualize Shape	<p>NX Visualize is the advanced NX visualization system. NX Visualize provides real-time graphical tools necessary to dynamically assign and control real-time mapping of images, materials and textures to products and environments alike. This allows the user to accurately place the images/materials/textures, as the part would be created, offering realism to the product. The careful control of the materials provide Real-time Realism to the design, real-time mapping of a image for early creation work and set-up controls for preparing renderings. This is highly intensive OpenGL graphics application, which is supported on most NX workstations.</p>

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
UG10765	NX Advanced Designer Bundle	NX Advanced Designer Bundle Software bundles and Portfolios are large collections of software modules offered as a single user bundle for a greatly reduced price. When the user accesses the bundle or portfolio all modules are made available to the user as a bundled group of software and are not available separately to any other user.
UG10770	NX Manufacturing Bundle	NX Manufacturing Bundle Includes the following: UG10100-Gateway UG10210-Drafting UG10610-Solid Modeling UG10620-Feature Modeling UG10630-Freeform Modeling UG10810-Assemblies UG11214-Post Exec UG11218-Library Genius Access UG11220-CAM Visualize UG11240-Fixed Axis Milling UG11245-Variable Axis Milling UG11250-Graph Tool Path Editor UG11260-Core and Cavity Milling UG11265-Flow Cut UG11270-Sequential Milling UG11284-Shop Doc UG12210-Open C and C++ Runtime UG12230-Open GRIP Runtime UG12815-IGES Translator UG12825-DXF/DWG Translator UG12860-STEP AP203 Translator UG12865-STEP AP214 Translator UG2715-CAM Base UG2735-Planar Milling
UG11031	NX Motion Simulation	NX Motion Simulation is an integrated, associative, intuitive motion simulation pre/post and ADAMS solver for NX parts and assemblies. Available motion objects include joints, springs, dampers, motion drivers, forces, torques and bushings. Contact between bodies is also easily modeled and included in the simulation. Available results include interference checking, graphs, animations, MPEG movie output and spreadsheet driven articulation. This product is a complete solution for simulating the motion of NX parts and assemblies.

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
UG11210	NX Turning	Turning offers advanced turning functions such as in-process linked operations in lathe for roughing, finishing and groove operations. It will also address the programming of Mill/Turn machines. It also contains a turning visualization and verification function. This module replaces the NX Lathe module.
UG11214	NX Post Exec	NX Post Exec is the executable portion of the NX machine tool postprocessor, which converts internal NX CAM tool paths into machine specific output. This is an essential module for all NC programmers that require the capability to postprocess NC output. Product Prerequisites: UG2715
UG11216	NX Post Builder	This postprocessor development program allows users to interactively create NC postprocessor programs that in turn can be executed using NX Post Exec to produce machine specific output. Standard milling, drilling, and turning machines are supported. It contains Windows like structures with drag and drop options for defining the different postprocessor parameters. In addition, it provides the capability to manually modify its output so that, users with TCL programming experience, can extend postprocessing features not available in NX Post Builder. Product Prerequisites:UG2715
UG11274	Machining 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.
UG11275	NX Nurbs Path Generator	NX Nurbs Path Generator provides the following: a machine control dialog with a new option for output B-spline tool path, the application code for the generation of the tool path, and the necessary enhancements to the GPM module to post process the new format. Customers must have NX CAM Base and either Planar Milling, Cavity Milling or Fixed Axis Surface Contouring processors. The customers must also have GPM to post process the CLFS file with the special format. This format is supported by Fanc and Siemens controllers that have Nurbs interpolation option. This option does not support Variable Axis Machining. Product Prerequisites:(UG2715 and UG2720 and UG2735) or (UG2715 and UG2720 and UG11260)



<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
UG11280	NX Wire EDM	This module allows for the wire EDM cutting of parts in 2 through 4 axis mode. Wireframe as well as solid models are supported to define the part to be cut. Many types of wire operations are supported such as multi-pass profiling, wire reversing and area removal.
UG11430	UG NX Sheet Metal	NX Sheet Metal includes features for designing straight brake parts such as enclosures, brackets etc. Provides easy sheet metal design with ability to create sheet metal parts from solid models. NX Sheet Metal features include Flanges such as Basic Flange, Contour Flange, Lofted Flange, Bend, Jog, Hem Flange and Sheet Metal from Solid. Includes Corner Features such as Closed Corner with Miter option, Three Bend Corner and Break Corner. Includes Punching Features such as Dimple, Louver, Drawn Cutout, Bead and Solid Punch. Includes Cutting Features such as Normal Cutout, Extrude and Bend Taper. Includes Resize Features such as Resize Bend Radius, Resize Bend Angle and Resize Neutral Factor which can be used to simulate Forming Stages. Includes Convert Features such as Edge Rip and Convert to Sheet Metal which allow other CAD system parts to be used in NX Sheet Metal. Also provides ability to Form/Unform flanges and creation of Flat Solid and annotated Flat Pattern for production. Provides defaults for Material Thickness, Bend Radius, Bend Relief, Neutral Factor etc. Provides Design driven by Material Selection, Bend Table, Tool ID etc. Also provides Flat Pattern treatments, Tool ID Displays and Sheet Metal Validation. Product Prerequisites: UG10100 AND UG10610
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).

<b>SOFTWARE PART NUMBER &amp; NAME AND DESCRIPTION</b>		
UG12250	NX Open Runtime	***THIS PRODUCT IS NOT AVAILABLE ON NX4*** Open Runtime Package provides the capability to run previously compiled and linked applications (programs) developed with Open C/C++ or Open GRIP. The license applies to applications that run from interactive NX, or independently as a non-interactive session.
UG12270	NX Open Automation Studio Bundle	Open Automation Studio Bundle provides the libraries and documentation required to compile and link Open C and/or C++ applications (User Function programs), and Open GRIP applications. Open Automation Studio does not include an Open C/C++ Runtime license, nor an Open GRIP runtime license. These licenses must also be purchased to actually run Open C/C++ programs or Open GRIP programs.
UG2070	NX Rapid Prototyping	This product, Rapid Prototyping Interface, is a one-way interface between NX and a rapid prototyping system, such as the SLA (Stereolithography) systems supplied by 3D Systems, Inc. It will convert a NX solid and/or surfaced model into a faceted representation and output the facet data in a file which can be used as input by the rapid prototyping system. This file is known as a .STL file and can be either in an ASCII text or a binary format.
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 Software Perpetual Licenses

<u>Product ID</u>	<u>Product Title</u>	<u>Product Description / Notes</u>	<u>GSA Price</u>
A001	Core Master Modeler		\$8,839.44
A002	Master Drafting		\$4,422.66
A003	Surfacing Set		\$5,526.67
A004	Assembly Set		\$6,631.42
A026	MasterFEM Package		\$19,340.40
A052	Sheet Metal		\$5,526.67
A053	Harness Design		\$11,052.60
A121	I-deas AutoCAD Data Translator		\$3,317.91
A145	Response Analysis		\$5,526.67
A180	Master Notation		\$2,761.13
A724	Imageware Polygon Modeling		\$5,526.67
A738	Imageware Evaluation		\$5,526.67
A740	Imageware Surfacing		\$11,052.60
A742	Imageware Point Processing		\$5,526.67
A743	Imageware Inspection		\$11,052.60
E002	FEMAP (Node Locked)		\$6,401.93
E004	FEMAP (Floating)		\$8,242.20
E600	FEMAP with NX Nastran: Basic (Node Locked)		\$8,748.97
E601	FEMAP with NX Nastran: Basic (Floating)		\$12,430.23
EFI24051	Lifecycle Representations User Module		\$8,289.27
EFI40312NU	Assembly Process Designer Bundle		\$23,019.46
EFI40440	E-factory Resource Manager User Module		\$920.87
EFI40505	E-factory Manufacturing Server Extension		\$9,209.40
FS201FNX	NX CEE - FL		\$34,528.82
FS201NNX	NX CEE - NL		\$27,623.05
FS202FNX	NX Advanced CEE - FL		\$49,074.39
FS202NNX	NX Advanced CEE - NL		\$39,261.86
FS220FNX	NX Laser Projection - FL		\$17,955.43
FS220NNX	NX Laser Projection - NL		\$14,366.11
FS230FNX	NX Export - FL		\$11,049.66
FS230NNX	NX Export - NL		\$8,840.91
FS234FNX	NX Composite STEP Exp/Imp FL		\$17,705.35
FS234NNX	NX Composite STEP Exp/Imp NL		\$14,163.10
FS240FNX	NX Documentation - FL		\$13,811.53
FS240NNX	NX Documentation - NL		\$11,049.66
FS250FNX	NX Analysis Interface Base - FL		\$16,574.13
FS250NNX	NX Analysis Interface Base - NL		\$13,257.68
GS10105	Geolus-Federate		\$13,020.85
GS10110	Geolus Enterprise Tools		\$13,636.47
IDUG305	NX MasterFEM+ Upgrade for NX Bundle	NSP	\$0.00

JK21001	Tecnomatix Jack Floating License Borrow Option	NSP	\$0.00
NX10101	NX Mach Designer - Node Locked		\$6,510.79
NX10210	NX CMM Inspection Programming		\$21,699.94
NX11100	NX Mach 1 Design (Node Locked)		\$8,593.77
NX11110	NX Mach 1 Design (Floating)		\$10,728.98
NX11113	Mechatronics Concept Designer		\$23,436.49
NX11430	NX CAM Foundation		\$868.64
NX12100	NX Mach 2 Product Design		\$13,501.87
NX12450	NX CAD/CAM 3 Axis Milling Foundation		\$14,780.20
NX12460	NX CAM-only 5 Axis Machining		\$13,973.34
NX12500	NX Mach 2 Advanced FEM		\$14,756.66
NX12510	NX Advanced FEM - Add On		\$11,284.29
NX13100	NX Mach 3 Product Design		\$18,149.60
NX13200	NX Mach 3 Mold Design		\$18,149.60
NX13210	NX Mach 3 Progressive Die Design		\$18,149.60
NX13300	NX Mach 3 Industrial Design		\$19,939.85
NX13430	NX Total Machining		\$26,872.83
NX13440	NX Advanced 5 Axis Machining		\$24,364.72
NX13500	NX Mach 3 Advanced Simulation		\$19,964.12
NX13510	NX Advanced Simulation - Add On		\$16,491.75
NX21001	NX License Borrow Option	NSP	\$0.00
NX24062	NX Integration Classification		\$1,341.58
NX30100	NX Check-Mate Author		\$11,049.66
NX30101	NX Knowledge Fusion Author		\$13,814.47
NX30102	NX Open Dialog Designers		\$4,145.37
NX30104	NX Open for .NET Author		\$4,605.07
NX30106	NX Open Toolkits Author		\$18,418.80
NX30107	NX Open GRIP Author		\$6,081.25
NX30109	NX General Packaging		\$18,323.92
NX30110	NX VDA Checker		\$1,841.00
NX30111	NX Advanced Sheet Metal		\$4,605.07
NX30112	NX Fabric Flattener		\$1,841.00
NX30113	NX Human Modeling		\$5,525.20
NX30114	NX Human Modeling Posture Prediction		\$8,289.27
NX30117	NX Aerospace Sheet Metal		\$18,418.80
NX30120	NX Viewer		\$916.45
NX30122	NX Weld Assistant		\$3,684.94
NX30123	NX Electrode Design		\$2,578.72
NX30126	NX Die Validation		\$10,720.15
NX30127	NX WAVE Control		\$18,231.98
NX30133	NX Issue Management		\$216.24
NX30134	Content Migration Manager for I-deas	NSP	\$0.00
NX30138	NX Integration to Geolus		\$216.98
NX30140	HD3D Visual Reporting		\$3,467.96
NX30144	NX Ship Structure Basic Design		\$12,152.20

NX30145	NX Ship Structure Detail Design	\$15,623.84
NX30146	NX Ship Structure Manufacturing Prep	\$7,812.65
NX30148	NX Routing HVAC	\$8,680.56
NX30149	NX Routing P&ID	\$2,605.20
NX30150	NX Rules Based Structure Welding	\$2,778.05
NX30151	NX Ship Drafting	\$1,736.55
NX30153	NX Routing Cabling	\$13,020.85
NX30154	NX Routing Base	\$5,208.19
NX30158	NX Routing Piping and Tubing	\$15,623.84
NX30160	NX Routing Harness	\$15,623.84
NX30408	NX Turning Add-on	\$3,038.42
NX30409	NX 5 Axis Machining Add-on	\$4,341.02
NX30431	NX Wire EDM Add-on	\$1,736.55
NX30432	NX 2.5 Axis Milling Add-on	\$2,605.20
NX30433	NX 3 Axis Milling Add-on	\$4,341.02
NX30434	NX NC Simulation Add-on	\$4,774.24
NX30435	NX Feature Based Machining Author Add-on	\$4,341.02
NX30436	NX Turbomachinery Milling Add-on	\$6,076.84
NX30437	NX CAM Mach-level Data Management Add-on	\$2,171.24
NX30470	NX On Machine Probing Add-on	\$3,473.11
NX30472	NX Product Template Studio Author	\$6,944.01
NX30474	NX Product Template Studio Consumer	\$1,432.05
NX30504	NX Design Simulation	\$5,208.19
NX30521	NX Response Simulation	\$8,940.20
NX30522	NX Laminate Composites	\$11,978.62
NX30535	Mechatronics Concept Designer for NX	\$18,228.30
NX30601	NX CATIA V4 interface (translator)	\$4,605.07
NX30603	NX Pro/E interface (translator)	\$2,764.81
NX30604	NX CATIA V5 Interface (Translator)	\$9,483.01
NX30620	NX One-Step Formability Analysis	\$2,595.64
NX32000	NX Penetration Management	\$4,341.02
NX33000	NX Platform Design	\$8,680.56
NX41000	NX Mach Advantage – Node Locked	\$4,466.79
NXN001	NX Nastran Basic	\$23,019.46
NXN002	NX Nastran Advanced	\$23,019.46
NXN004	NX Nastran Dynamic Response	\$7,364.73
NXN010	NX Nastran DMP	\$13,814.47
NXN110	NX Nastran Desktop	\$13,814.47
NXN112	NX Nastran Desktop Advanced	\$13,814.47
NXN201	NX Nastran Quick Reference Guide	\$55.16
SE289	Solid Edge Classic - Node Locked	\$4,288.06
SE290	Solid Edge Classic - Floating	\$4,366.03
SE304	Solid Edge XpresRoute - Node Locked	\$776.71
SE306	Solid Edge XpresRoute - Floating	\$1,401.16

SE320TC	Solid Edge Classic- Floating (Unique Host ID Method)		\$4,366.03
SE330	Solid Edge/Catia V4 Translator Node Locked		\$386.88
SE331	Solid Edge/Catia V4 Translator Floating		\$698.74
SE360	Solid Edge Wire Harness Design Node Locked		\$776.71
SE361	Solid Edge Wire Harness Design Floating		\$1,401.16
SE370	Solid Edge Insight Node Locked		\$776.71
SE371	Solid Edge Insight Floating		\$854.67
SE375F	Solid Edge Embedded Client - Floating		\$663.44
SE377F	Solid Edge/Catia V5 Translator Floating		\$4,678.62
SE377N	Solid Edge/Catia V5 Translator Node Locked		\$3,898.24
SE388F	Solid Edge Premium - Floating		\$6,238.65
SE388N	Solid Edge Premium - Node Locked		\$6,160.69
TC010231	Change Management User		\$1,121.66
TC030112	Functional Safety Template		\$2,651.54
TC030201	Teamcenter Systems Engineering (Unified)		\$3,067.84
TC030301	Schedule Manager User		\$500.89
TC030401	Classification User		\$729.63
TC030701	Product Configuration User		\$3,501.06
TC031101	Embedded Software Management User		\$11,501.27
TC033011	Aerospace & Defense Solution Author		\$3,417.21
TC033012	Aerospace & Defense Solution Consumer		\$1,168.00
TC1DOTC	Teamcenter Deployment	NSP	\$0.00
TC10101	Teamcenter Author		\$1,458.53
TC10102	Teamcenter Consumer		\$688.44
TC20610	Visualization Standard		\$729.63
TC20716	Lightweight Package Exchange		\$313.33
TC20717	Design for Assembly ECAD Viewer Add-On		\$4,167.44
TC20755	Visualization Navigation and Reporting		\$1,667.42
TC21205	Community Collaboration Server	NSP	\$0.00
TC30600	NX Embedded Client		\$976.03
TC30601	NX 4GD Embedded Client		\$1,302.60
TC30611	Teamcenter Integration for AutoCAD		\$1,371.74
TC31008	Integration for Mentor PADS		\$2,209.49
TC31015	Integration for Altium Designer		\$2,209.49
TC31016	Integration for Cadence ORCAD Capture & Capture CIS Schematic		\$2,209.49
TC31050	Teamcenter Gateway for EDA		\$1,667.42
TC31121	Mechatronics Electrical Author		\$2,500.76
TC31138	EDA Library Manager Cadence Allegro		\$667.85
TC31139	EDA Library Manager Mentor Board Station		\$667.85
TC31140	EDA Library Manager Mentor Expedition		\$667.85
TC31141	EDA Library Manager Mentor PADS		\$667.85
TC31142	Embedded Software Design Management		\$2,083.72
TC31143	ECAD Translator for Cadence Allegro Board Layout		\$3,750.40

TC31144	ECAD Translator for Cadence Orcad Board Layout		\$3,750.40
TC31145	ECAD Translator for Mentor Board Station Board Layout		\$3,750.40
TC31146	ECAD Translator for Mentor Expedition Board Layout		\$3,750.40
TC31147	ECAD Translator for Mentor PADS Board Layout		\$3,750.40
TC31148	ECAD Translator for Protel P-CAD Board Layout		\$3,750.40
TC31153	ECAD Translator for Zuken CR3000 Board Layout		\$3,750.40
TC31154	ECAD Translator for Zuken CR5000 Board Layout		\$3,750.40
TC31155	ECAD Translator for Schematic EDIF 300		\$3,750.40
TC31156	ECAD Translator for Schematic EDIF 200		\$3,750.40
TC31165	SW Calibration & Config. Data Mgmt User		\$2,917.06
TC50100	Teamcenter Rapid Start		\$1,515.16
TCCACAD105	Teamcenter Community Collaboration Bundle	NSP	\$0.00
TCCACAD205	Teamcenter Community Collaboration Bundle	NSP	\$0.00
TCM24804	Teamcenter Manufacturing Documentation		\$1,859.39
TCM55012	NX CAM Embedded Client		\$884.09
UG10000-WISD	NX S/W and Doc Media Site Set - Windows		\$460.43
UG10100	NX Gateway		\$2,947.95
UG10660	NX Render		\$1,841.00
UG10662	NX Freeform Shape		\$4,145.37
UG10665	NX Visualize Shape		\$3,406.91
UG10765	NX Advanced Designer Bundle		\$16,482.92
UG10770	NX Manufacturing Bundle		\$23,019.46
UG11210	NX Turning		\$3,681.26
UG11214	NX Post Exec		\$1,836.58
UG11216	NX Post Builder		\$4,601.39
UG11274	Machining Wizard Builder		\$5,525.20
UG11275	NX Nurbs Path Generator		\$2,764.81
UG11430	NX Sheet Metal		\$3,684.94
UG11570	ISV - Simulation		\$1,749.79
UG11580	ISV - Advanced Simulation		\$4,509.45
UG2070	NX Rapid Prototyping		\$5,525.20
VC1005	Direct NX to VERICUT Geometry Interface		\$734.05

**P2 = SEMI-Retired: Sales to those customers who have the product in their current configuration**

**P3 = RETIRED, Maintenance Renewals only for those customers who currently have the product license in their configuration**

**NSP = Not Separately Priced, provided in conjunction with other items.**

**Special Item No: 132-33 Maintenance of Software Sold as a Product**

**SIN 132-33, CLASS J070 SOFTWARE MAINTENANCE PRICE LIST**

<b>Product ID</b>	<b>Product Title</b>	<b>Product Description / Notes</b>	<b>GSA Price</b>
A001-M	Core Master Modeler		\$1,942.31
A002-M	Master Drafting		\$972.95
A003-M	Surfacing Set		\$1,214.17
A004-M	Assembly Set		\$1,457.18
A026-M	MasterFEM Package		\$4,245.10
A052-M	Sheet Metal		\$1,214.17
A053-M	Harness Design		\$2,427.44
A121-M	I-deas AutoCAD Data Translator		\$729.93
A145-M	Response Analysis		\$1,214.17
A180-M	Master Notation		\$606.19
A724-M	Imageware Polygon Modeling		\$1,214.17
A738-M	Imageware Evaluation		\$1,214.17
A740-M	Imageware Surfacing		\$2,427.44
A742-M	Imageware Point Processing		\$1,214.17
A743-M	Imageware Inspection		\$2,427.44
E002-M	FEMAP (Node Locked)		\$1,718.13
E004-M	FEMAP (Floating)		\$2,311.76
E600-M	FEMAP with NX Nastran: Basic (Node Locked)		\$2,240.92
E601-M	FEMAP with NX Nastran: Basic (Floating)		\$3,183.38
EFI24051-M	Lifecycle Representations User Module		\$2,124.34
EFI40312NU-M	Assembly Process Designer Bundle		\$5,894.18
EFI40440-M	E-factory Resource Manager User Module		\$215.21
EFI40505-M	E-factory Manufacturing Server Extension		\$2,136.00
FS201FNX-M	NX CEE - FL		\$9,261.38
FS201NNX-M	NX CEE - NL		\$7,409.64
FS202FNX-M	NX Advanced CEE - FL		\$13,163.03
FS202NNX-M	NX Advanced CEE - NL		\$10,531.14
FS220FNX-M	NX Laser Projection - FL		\$4,816.31
FS220NNX-M	NX Laser Projection - NL		\$3,853.23
FS230FNX-M	NX Export - FL		\$2,963.68
FS230NNX-M	NX Export - NL		\$2,371.84
FS234FNX-M	NX Composite STEP Exp/Imp FL		\$4,749.95
FS234NNX-M	NX Composite STEP Exp/Imp NL		\$3,799.43
FS240FNX-M	NX Documentation - FL		\$3,705.27
FS240NNX-M	NX Documentation - NL		\$2,963.68
FS250FNX-M	NX Analysis Interface Base - FL		\$4,445.96



FS250NNX-M	NX Analysis Interface Base - NL		\$3,556.41
GS10105-M	Geolus-Federate		\$3,494.54
GS10110-M	Geolus Enterprise Tools		\$3,657.74
IDUG305-M	NX MasterFEM+ Upgrade for NX Bundle		\$4,830.66
JK21001-M	Tecnomatix Jack Floating License Borrow Option	NSP	\$0.00
NX10101-M	NX Mach Designer - Node Locked		\$1,747.72
NX10105-M	NX Mach Power Drafting	P3	\$1,282.32
NX10106-M	NX Power Drafting	P3	\$1,163.05
NX10210-M	NX CMM Inspection Programming		\$5,821.54
NX11100-M	NX Mach 1 Design (Node Locked)		\$2,200.56
NX11110-M	NX Mach 1 Design (Floating)		\$2,747.57
NX11113-M	Mechatronics Concept Designer		\$6,287.84
NX11430-M	NX CAM Foundation		\$212.52
NX12100-M	NX Mach 2 Product Design		\$3,129.57
NX12440-M	NX CAD/CAM Turning Foundation		#N/A
NX12450-M	NX CAD/CAM 3 Axis Milling Foundation		\$3,604.84
NX12460-M	NX CAM-only 5 Axis Machining		\$3,408.45
NX12500-M	NX Mach 2 Advanced FEM		\$3,419.21
NX12510-M	NX Advanced FEM - Add On		\$2,889.25
NX13100-M	NX Mach 3 Product Design		\$4,205.64
NX13200-M	NX Mach 3 Mold Design		\$4,205.64
NX13210-M	NX Mach 3 Progressive Die Design		\$4,205.64
NX13300-M	NX Mach 3 Industrial Design		\$4,484.52
NX13430-M	NX Total Machining		\$6,553.27
NX13440-M	NX Advanced 5 Axis Machining		\$5,943.50
NX13500-M	NX Mach 3 Advanced Simulation		\$5,112.23
NX13510-M	NX Advanced Simulation - Add On		\$4,425.34
NX21001-M	NX License Borrow Option	NSP	\$0.00
NX24062-M	NX Integration Classification		\$312.06
NX30100-M	NX Check-Mate Author		\$2,425.64
NX30101-M	NX Knowledge Fusion Author		\$3,201.31
NX30102-M	NX Open Dialog Designers		\$911.07
NX30104-M	NX Open for .NET Author		\$1,010.61
NX30106-M	NX Open Toolkits Author		\$4,042.44
NX30107-M	NX Open GRIP Author		\$1,336.12
NX30109-M	NX General Packaging		\$4,022.71
NX30110-M	NX VDA Checker		\$405.32
NX30111-M	NX Advanced Sheet Metal		\$1,010.61
NX30112-M	NX Fabric Flattener		\$405.32
NX30113-M	NX Human Modeling		\$1,214.17
NX30114-M	NX Human Modeling Posture Prediction		\$1,820.35
NX30117-M	NX Aerospace Sheet Metal		\$4,042.44
NX30120-M	NX Viewer		\$201.76
NX30122-M	NX Weld Assistant		\$809.74
NX30123-M	NX Electrode Design		\$568.52

NX30126-M	NX Die Validation		\$2,353.90
NX30127-M	NX WAVE Control		\$4,002.09
NX30133-M	NX Issue Management		\$59.18
NX30134-M	Content Migration Manager for I-deas	NSP	\$0.00
NX30138-M	NX Integration to Geolus		\$50.22
NX30140-M	HD3D Visual Reporting		\$930.80
NX30142-M	NX Ship Design		\$3,034.52
NX30144-M	NX Ship Structure Basic Design		\$2,962.78
NX30145-M	NX Ship Structure Detail Design		\$3,810.19
NX30146-M	NX Ship Structure Manufacturing Prep		\$1,905.54
NX30148-M	NX Routing HVAC		\$2,118.07
NX30149-M	NX Routing P&ID		\$635.78
NX30150-M	NX Rules Based Structure Welding		\$677.92
NX30151-M	NX Ship Drafting		\$424.15
NX30153-M	NX Routing Cabling		\$3,177.10
NX30154-M	NX Routing Base		\$1,270.66
NX30158-M	NX Routing Piping and Tubing		\$3,810.19
NX30160-M	NX Routing Harness		\$3,810.19
NX30408-M	NX Turning Add-on		\$743.39
NX30409-M	NX 5 Axis Machining Add-on		\$1,060.83
NX30412-M	Siemens 840D Virtual Controller (VNCK) - 4 Axis and less	P3	\$1,688.53
NX30413-M	Siemens 840D Virtual Controller (VNCK) - 5 Axis and more	P3	\$3,376.17
NX30414-M	Siemens 840D Virtual Controller (VNCK) Update 4 to 5 axis	P3	\$1,688.53
NX30415-M	Siemens 840D Virtual Controller (VNCK) - Multi Configuration	P3	\$1,021.37
NX30431-M	NX Wire EDM Add-on		\$424.15
NX30432-M	NX 2.5 Axis Milling Add-on		\$635.78
NX30433-M	NX 3 Axis Milling Add-on		\$1,060.83
NX30434-M	NX NC Simulation Add-on		\$1,165.74
NX30435-M	NX Feature Based Machining Author Add-on		\$1,060.83
NX30436-M	NX Turbomachinery Milling Add-on		\$1,482.29
NX30437-M	NX CAM Mach-level Data Management Add-on		\$529.96
NX30470-M	NX On Machine Probing Add-on		\$764.01
NX30472-M	NX Product Template Studio Author		\$1,608.73
NX30474-M	NX Product Template Studio Consumer		\$331.79
NX30504-M	NX Design Simulation		\$1,397.99
NX30521-M	NX Response Simulation		\$2,073.23
NX30522-M	NX Laminate Composites		\$2,776.26
NX30535-M	Mechatronics Concept Designer for NX		\$4,890.74
NX30554-M	NX Topology Optimization	P3	\$3,352.86
NX30601-M	NX CATIA V4 interface (translator)		\$1,010.61
NX30603-M	NX Pro/E interface (translator)		\$607.08
NX30604-M	NX CATIA V5 Interface (Translator)		\$2,082.20

NX30620-M	NX One-Step Formability Analysis		\$696.76
NX32000-M	NX Penetration Management		\$1,060.83
NX33000-M	NX Platform Design		\$2,118.07
NX41000-M	NX Mach Advantage – Node Locked		\$1,472.42
NXN001-M	NX Nastran Basic		\$5,894.18
NXN002-M	NX Nastran Advanced		\$5,894.18
NXN004-M	NX Nastran Dynamic Response		\$1,885.81
NXN005-M	NX Nastran Aeroelasticity	P3	\$1,885.81
NXN008-M	NX Nastran Super Elements	P3	\$3,773.42
NXN009-M	NX Nastran DMAP	P3	\$2,711.70
NXN010-M	NX Nastran DMP		\$3,538.48
NXN110-M	NX Nastran Desktop		\$3,201.31
NXN112-M	NX Nastran Desktop Advanced		\$3,201.31
SE289-M	Solid Edge Classic - Node Locked		\$1,426.69
SE290-M	Solid Edge Classic - Floating		\$1,426.69
SE304-M	Solid Edge XpresRoute - Node Locked		\$240.32
SE306-M	Solid Edge XpresRoute - Floating		\$434.02
SE320TC-M	Solid Edge Classic- Floating (Unique Host ID Method)		\$1,426.69
SE330-M	Solid Edge/Catia V4 Translator Node Locked		\$114.78
SE331-M	Solid Edge/Catia V4 Translator Floating		\$217.01
SE360-M	Solid Edge Wire Harness Design Node Locked		\$240.32
SE361-M	Solid Edge Wire Harness Design Floating		\$434.02
SE370-M	Solid Edge Insight Node Locked		\$240.32
SE371-M	Solid Edge Insight Floating		\$264.53
SE375F-M	Solid Edge Embedded Client - Floating		\$162.31
SE377F-M	Solid Edge/Catia V5 Translator Floating		\$1,427.59
SE377N-M	Solid Edge/Catia V5 Translator Node Locked		\$1,198.92
SE388F-M	Solid Edge Premium - Floating		\$2,028.39
SE388N-M	Solid Edge Premium - Node Locked		\$2,028.39
TC010231-M	Change Management User		\$306.68
TC030112-M	Functional Safety Template		\$646.54
TC030201-M	Teamcenter Systems Engineering (Unified)		\$824.09
TC030301-M	Schedule Manager User		\$134.51
TC030401-M	Classification User		\$194.59
TC030701-M	Product Configuration User		\$937.08
TC031101-M	Embedded Software Management User		\$3,091.01
TC033011-M	Aerospace & Defense Solution Author		\$918.25
TC033012-M	Aerospace & Defense Solution Consumer		\$315.65
TC10101-M	Teamcenter Author		\$365.86
TC10102-M	Teamcenter Consumer		\$175.76
TC14001-M	Teamcenter Express Author	P3	\$365.86
TC14003-M	Teamcenter Express Consumer	P3	\$175.76
TC14004-M	Teamcenter Express Shop Floor Viewer	P3	\$65.46
TC1DOTC-M	Teamcenter Deployment	NSP	\$0.00

TC20610-M	Visualization Standard		\$183.83
TC20716-M	Lightweight Package Exchange		\$86.09
TC20717-M	Design for Assembly ECAD Viewer Add-On		\$1,120.01
TC20755-M	Visualization Navigation and Reporting		\$448.36
TC21205-M	Community Collaboration Server	NSP	\$0.00
TC30600-M	NX Embedded Client		\$244.81
TC30601-M	NX 4GD Embedded Client		\$318.34
TC30611-M	Teamcenter Integration for AutoCAD		\$368.55
TC31008-M	Integration for Mentor PADs		\$594.53
TC31015-M	Integration for Altium Designer		\$594.53
TC31016-M	Integration for Cadence ORCAD Capture & Capture CIS Schematic		\$594.53
TC31050-M	Teamcenter Gateway for EDA		\$448.36
TC31121-M	Mechatronics Electrical Author		\$671.65
TC31138-M	EDA Library Manager Cadence Allegro		\$180.24
TC31139-M	EDA Library Manager Mentor Board Station		\$180.24
TC31140-M	EDA Library Manager Mentor Expedition		\$180.24
TC31141-M	EDA Library Manager Mentor PADS		\$180.24
TC31142-M	Embedded Software Design Management		\$560.45
TC31143-M	ECAD Translator for Cadence Allegro Board Layout		\$1,006.13
TC31144-M	ECAD Translator for Cadence Orcad Board Layout		\$1,006.13
TC31145-M	ECAD Translator for Mentor Board Station Board Layout		\$1,006.13
TC31146-M	ECAD Translator for Mentor Expedition Board Layout		\$1,006.13
TC31147-M	ECAD Translator for Mentor PADS Board Layout		\$1,006.13
TC31148-M	ECAD Translator for Protel P-CAD Board Layout		\$1,006.13
TC31153-M	ECAD Translator for Zuken CR3000 Board Layout		\$1,006.13
TC31154-M	ECAD Translator for Zuken CR5000 Board Layout		\$1,006.13
TC31155-M	ECAD Translator for Schematic EDIF 300		\$1,006.13
TC31156-M	ECAD Translator for Schematic EDIF 200		\$1,006.13
TC31165-M	SW Calibration & Config. Data Mgmt User		\$782.84
TC50100-M	Teamcenter Rapid Start		\$407.11
TCCACAD105-M	Teamcenter Community Collaboration Bundle	NSP	\$0.00
TCCACAD205-M	Teamcenter Community Collaboration Bundle	NSP	\$0.00
TCM24804-M	Teamcenter Manufacturing Documentation		\$499.48
TCM55010-M	Teamcenter Manufacturing Resource Manager*	P3	\$224.18
TCM55012-M	NX CAM Embedded Client		\$224.18
UG10000-WISD-M	NX S/W and Doc Media Site Set - Windows		\$377.52
UG10100-M	NX Gateway		\$647.44
UG10660-M	NX Render		\$405.32
UG10662-M	NX Freeform Shape		\$911.07
UG10665-M	NX Visualize Shape		\$749.66

UG10765-M	NX Advanced Designer Bundle		\$3,618.29
UG10770-M	NX Manufacturing Bundle		\$5,053.94
UG11031-M	NX Motion Simulation*	P3	\$2,709.01
UG11210-M	NX Turning		\$808.85
UG11214-M	NX Post Exec		\$403.53
UG11216-M	NX Post Builder		\$1,012.40
UG11274-M	Machining Wizard Builder		\$1,214.17
UG11275-M	NX Nurbs Path Generator		\$642.06
UG11280-M	NX Wire EDM*	P3	\$1,214.17
UG11430-M	NX Sheet Metal		\$809.74
UG11570-M	ISV - Simulation		\$384.70
UG11580-M	ISV - Advanced Simulation		\$989.98
UG12250-M	NX Open Runtime Package*	P3	\$930.80
UG12270-M	NX Open Automation Studio Bundle*	P3	\$3,536.69
UG2070-M	NX Rapid Prototyping		\$1,214.17
VC1005-M	Direct NX to VERICUT Geometry Interface		\$161.41

**P2 = SEMI-Retired: Sales to those customers who have the product in their current configuration**  
**P3 = RETIRED, Maintenance Renewals only for customers who currently have product license in their configuration**  
**NSP = Not Separately Priced, provided in conjunction with other items.**

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

**IT Professional Services Category Descriptions**

Equivalents for Qualification Requirements	
Degree Specified	Experience Substitution for Degree
Associate's degree	No degree and two years additional related experience
Bachelor's degree	Associate's degree and two years additional related experience
Master's degree	Bachelor's degree and one year additional related experience
Experience Specified	Education Substitution for Experience
For each year of experience	Equivalent of nine (9) months of study in an accredited degree program (Associates, Bachelors, Masters, or Doctorate)

Labor Category with Qualifications	
<b><i>Project Director</i></b> <span style="float: right;"><b><i>CLIN 001</i></b></span>	
<i>Functional responsibility</i>	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.
<i>Minimum education</i>	M.S.
<i>Minimum years /general experience</i>	15 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.
<b><i>Program Manager</i></b> <span style="float: right;"><b><i>CLIN 002</i></b></span>	
<i>Functional responsibility</i>	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.
<i>Minimum education</i>	B.S. in a technical field

<i>Minimum years /general experience</i>	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.
<b><i>Application Programmer I</i></b> <span style="float: right;"><b><i>CLIN 003</i></b></span>	
<i>Functional responsibility</i>	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.
<i>Minimum education</i>	B.S. (computer science or related)
<i>Minimum years /general experience</i>	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.
<b><i>Application Programmer II</i></b> <span style="float: right;"><b><i>CLIN 004</i></b></span>	
<i>Functional responsibility</i>	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.
<i>Minimum education</i>	B.S. (computer science or related)
<i>Minimum years /general experience</i>	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.
<b><i>Senior Application Engineer</i></b> <span style="float: right;"><b><i>CLIN 005</i></b></span>	
<i>Functional responsibility</i>	Provides unique industry recognized expertise. Work at the highest technical level of all phases of design and creation. Responsible for the overall infrastructure for a wide range of applications such as the e-commerce and reverse engineering disciplines.
<i>Minimum education</i>	PhD in an engineering field, or MS
<i>Minimum years /general experience</i>	15 years of applicable experience in engineering research, development and applications.

<b>Application Engineer I</b>		<b>CLIN 006</b>
<i>Functional responsibility</i>	Responsible for leading and assisting the various groups in the development of system specifications. Supports e-commerce, reverse engineering and post processing efforts in developing the design, and documentation for task at hand.	
<i>Minimum education</i>	B.S. in an engineering field	
<i>Minimum years /general experience</i>	4 years of applicable experience in reverse engineering research and applications.	
<b>Computer IT Programmer II</b>		<b>CLIN 007</b>
<i>Functional responsibility</i>	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.	
<i>Minimum education</i>	B.S. (computer science or related)	
<i>Minimum years /general experience</i>	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.	
<b>Computer Scientist II</b>		<b>CLIN 008</b>
<i>Functional responsibility</i>	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.	
<i>Minimum education</i>	B.S. (computer science or related)	
<i>Minimum years /general experience</i>	At least 5 years' experience in the planning, analysis, design and construction of large-scale information systems, or 7 years experience.	
<b>Draftsperson (CAD)</b>		<b>CLIN 009</b>
<i>Functional responsibility</i>	Responsible for Computer Aided Design applications. Assists in reviewing, revising, and editing technical CAD data. Assists in user training.	
<i>Minimum education</i>	Associates	
<i>Minimum years /general experience</i>	At least 3 years' applicable experience in appropriate field.	
<b>Mid-Level CAD Modeler</b>		<b>CLIN 010</b>



<i>Functional responsibility</i>	Responsible for Computer Aided Design applications. Assists in reviewing, revising, and editing technical CAD data. Assists in user training and overseeing other Draftsman and modelers.
<i>Minimum education</i>	Bachelor
<i>Minimum years /general experience</i>	At least 7 years' applicable experience in appropriate field.
<b>Hardware Engineer II <span style="float: right;">CLIN 011</span></b>	
<i>Functional responsibility</i>	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.
<i>Minimum education</i>	B.S. (engineering)
<i>Minimum years /general experience</i>	At least 5 years' experience relevant to assigned tasks, including some managerial experience.
<b>IT Support Specialist <span style="float: right;">CLIN 012</span></b>	
<i>Functional responsibility</i>	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.
<i>Minimum education</i>	H.S.
<i>Minimum years /general experience</i>	2 years of 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.
<b>Data Analyst <span style="float: right;">CLIN 013</span></b>	
<i>Functional responsibility</i>	Develops, designs, and maintains simple reports, spreadsheets, and databases. Assists staff on data input and other computer applications. Reviews/updates technical documentation.
<i>Minimum education</i>	Associates
<i>Minimum years /general experience</i>	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.
<b>Technical Analyst <span style="float: right;">CLIN 014</span></b>	
<i>Functional responsibility</i>	Provides Visualization and PDM support to end users. Tasks include developing best practices, mentoring users and help desk support. Work on a team configuring applications such maintenance and modernization implementations. Tasks include developing best practices, creating processes and implementing solutions.
<i>Minimum education</i>	B.S. in computer science or related fields

<i>Minimum years /general experience</i>	One (1) Year Experience
<b><i>Technical Specialist II</i></b> <span style="float: right;"><b><i>CLIN 015</i></b></span>	
<i>Functional responsibility</i>	Provides CAx, Visualization and PDM/PLM support to users and management. Tasks include developing best practices, creating processes and implementing solutions. Work on a team configuring applications for PDM/PLM implementations. Tasks are typically on an organization level and may include mid-level programming, configuration and validation. Installs and configures software applications.
<i>Minimum education</i>	B.S. in computer science or related fields
<i>Minimum years /general experience</i>	Three (3) years experience

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

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**Information Technology Professional Services Price List**

<u>CLIN</u>	<u>Labor Category</u>	<u>GSA Price</u>
001	Project Controller	\$199.13
002	Program Manager	\$155.01
003	Application Programmer I	\$112.02
004	Application Programmer II	\$124.69
005	Senior Application Engineer	\$233.30
006	Application Engineer I	\$136.16
007	Computer IT Programmer II	\$118.97
008	Computer Scientist II	\$157.79
009	Draftsman (CAD)	\$68.51
010	Mid-Level CAD Modeler	\$85.57
011	Hardware Engineer II	\$104.54
012	IT Support Specialist	\$79.90
013	Data Analyst	\$89.87
014	Technical Analyst	\$162.22
015	Tech. Specialist II	\$201.73