

DOWN-SELECT PROCESS GUIDE

Joint Project Manager Information Systems (JPM IS)
Joint Effects Model (JEM) Increment 2



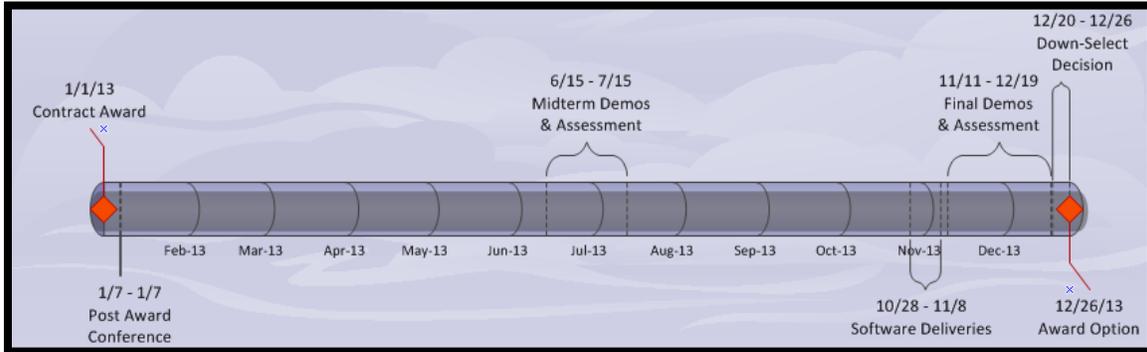
Joint Project Manager Information Systems (JPM IS)

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San Diego, CA 92110-3127

1. Purpose

The purpose of this document is to describe the specific requirements, processes, events, and assessments that will constitute the JEM Increment 2 Down-Select Process. Below is a high-level timeline of events, which is defined further in the sections that follow:

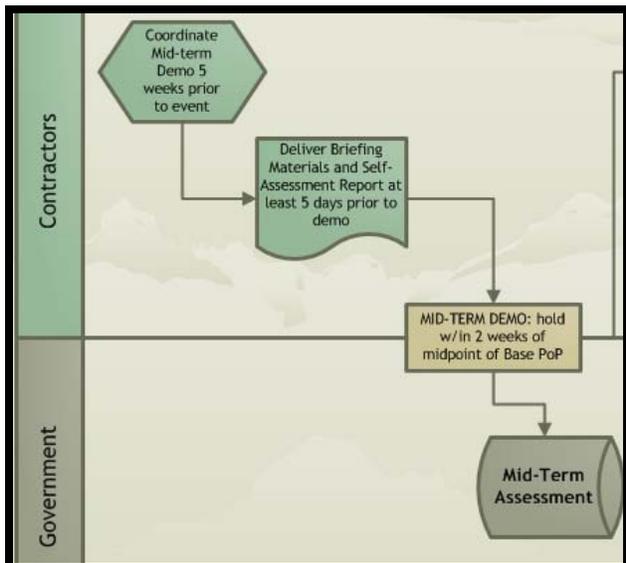


2. Technical Interchange Meetings

Each base period Awardee will participate in approximately eight Technical Interchange Meetings (TIMs) upon request by the Government or the Contractor. TIMs are not intended to be part of the down-select assessment. The technical discussions and deliverables associated with the TIMs will not impact the Contractors' Midterm or Final Assessments. See Performance Work Statement (PWS) Section 4.1.2 for details related to the performance of TIMs.

3. Midterm Demonstration and Government Assessment

The first down-selection assessment events will consist of a Midterm Demo and Midterm Assessment. For demonstration purposes, the expected platform to be used will be a standalone PC. The Midterm Demo and Assessment will allow the Government to pulse check the Contractors' to-date developed software using the same assessment criteria and tools that will be used at the Final Assessment.



3.1 Midterm Demonstration

The Contractor shall coordinate schedules with the Contracting Officer's Representative (COR) at least five weeks prior to the Midterm Demonstration. This demo must occur within two weeks of the midterm point of the base period. For example, if the base period is Jan 1, 2013 through Dec 31, 2013, then the midterm point is July 1, 2013. As such, an acceptable date for holding the Midterm Demonstration would be anytime between June 15, 2013 and July 15, 2013.

The Midterm Demonstration will take place at the JEM Prototyping Lab at SSC PAC. See Appendix A, “JEM Lab Hardware Specifications” for information regarding the machines on which the Contractor will be expected to demonstrate their software. The Contractor may, upon request, be given access to the lab prior to the demo to become familiar with the demo environment. Such request, if made, shall be coordinated by the Contractor at the time they coordinate schedules for the Midterm Demo itself. The Government reserves the right to provide access on an as-available basis. Due to the security in the Lab, a Government escort may be required; however, the Government escort will be independent of the JEM Incr 2 software assessment team. The Midterm Demo will be attended by the Contractor team, the JEM PMO, JPM IS leadership, and SPAWAR 2.0. The event shall take no more than 1 working day.

At least five days prior to the scheduled Midterm Demonstration, the Contractor shall deliver a completed Self-Assessment Report (CDRL A001) and Briefing Materials (CDRL A002). During this event, the Contractor shall demonstrate its to-date software and explain to what extent its software meets the assessment criteria. In addition to a demonstration, the Contractor shall prepare a status review to brief the PMO on the current cost, schedule, and performance status metrics of the JEM software. The specific content, format, and duration of the event shall be left in the Contractor’s discretion. The Contractor shall provide an anticipated length of time for the event, not to exceed one working day, when coordinating schedules five weeks prior to the event.

3.2 Midterm Government Assessment

Following the Contractors’ Midterm Demonstration, the Government will complete its independent Midterm Assessment. The Government’s independent review will consist of an assessment of the Contractors’ to-date software and Self-Assessment Report.

The criteria for assessing the Contractors are as follows:

#	Criterion	Metric	Method
1	Contract Compliance	% Compliant	Contract Compliance Checklist
2	Usability	Consolidated Survey Score	Usability Surveys
3	CCMI Compliance Level	% Compliant	CCMI Checklist
4	Innovativeness	Composite Score	Contractor Demo followed by Independent Gov’t Analysis
5	Cost Variance	Adjusted Cost Variance %	Standard Formulas using CPR Derived Data

- **Assessment Criterion #1: Contract Compliance**

The Contractor will be assessed on its level of compliance with the terms of the Performance Work Statement (PWS). Level of compliance will be described as a weighted percentage. Weightings will be applied such that tasks of greater importance and difficulty will have a greater impact on the overall contract compliance score. All

weightings can be found in the Government-provided Self-Assessment Scorecard Template (see CDRL A001 Block 4).

To assess the Contractor on this criterion, the Government will review specific tasks from Section 4 of the PWS (i.e., “Base Period Performance Requirements”) and decide whether the Contractor substantially met the specific activity. See “01-KCompliance” tab contained within the Self-Assessment Scorecard Template for the specific PWS activities that will be reviewed for the purposes of assessing this criterion along with their corresponding weightings. The number of activities the Contractor substantially meets as a percent of all activities, with weightings applied, will constitute the Contractor’s Contract Compliance score.

As used here, “substantially met” will follow the doctrine of substantial performance. An activity contained within the compliance checklist will be considered substantially met where the essential purpose of that activity is accomplished even if it does not perfectly meet the terms of the contract.

- **Assessment Criterion #2: Usability**

The Contractor will be assessed on the software’s overall usability. The usability criterion will be described as a consensus consolidated survey score. The consolidated score will be derived from each survey-taker’s stated “Level of Satisfaction” across 9 attributes. Each survey-taker’s consolidated score will be combined and averaged to form the consensus consolidated survey score. The survey-taker’s stated “Overall Satisfaction” will not be used in the calculation of the consolidated score. The purpose of the “Overall Satisfaction” response is to provide a correlation check to ensure the integrity of the survey-taker’s responses. Where the correlation check highlights an unexpected result (i.e., where overall satisfaction is greater than +/- 50% from the consolidated score), the Government reserves the right to review the survey responses with the survey-taker to validate their intent.

The usability survey is located within the “02-Usability” tab contained within the Self-Assessment Scorecard Template. The first prompt asks end-users to rate their overall level of satisfaction with the software and is used for internal statistical assurance. The remaining prompts ask the user to rate their specific “Level of Satisfaction” with respect to two User-Interface areas (Attributes #1-2) and seven CBRN Hazard Modeling areas (Attributes #3-9). The survey also asks the user to rate the “Level of Importance” of the 9 attributes. The survey-taker’s stated “Level of Importance” for the 9 attributes is intended for Government’s internal use only and will not be taken into account in calculating the consolidated scores. The Consolidated Usability Score will be calculated by taking the average Level of Satisfaction across the 9 attributes and displaying the average as a percentage of the highest possible score. To accomplish this, the levels of satisfaction will be assigned the following numeric values:

Level of Satisfaction	Numeric Value
Very Unsatisfied	0
Somewhat Unsatisfied	1
Neither Satisfied Nor Unsatisfied	2
Somewhat Satisfied	3
Very Satisfied	4

Below is a sample of how an end-user survey produces a single Consolidated Usability Score:

Overall Satisfaction:	Level of Satisfaction	Level of Importance: How Important is the Attribute to you?
What is your overall satisfaction with the software?	3-Somewhat Satisfied	
Please rate your level of satisfaction with the User Interface in the following areas:		
Attribute #1 Intuitiveness	2-Neither Satisfied Nor Unsatisfied	2-Somewhat Important
Attribute #2 Timeliness of Response	3-Somewhat Satisfied	3-Important
Please rate your level of satisfaction with CBRN Hazard Modeling in the following areas:		
Attribute #3 Runtime	3-Somewhat Satisfied	1-Slightly Important
Attribute #4 Comprehensiveness	2-Neither Satisfied Nor Unsatisfied	3-Important
Attribute #5 Execution of CONOPS	4-Very Satisfied	4-Very Important
Attribute #6 Reports	3-Somewhat Satisfied	4-Very Important
Attribute #7 Data Export	4-Very Satisfied	4-Very Important
Attribute #8 Configurability	4-Very Satisfied	2-Somewhat Important
Attribute #9 Installation	3-Somewhat Satisfied	1-Slightly Important
Consolidated Usability Score:		77.8%

After all end-user surveys are collected, the Government will combine all Consolidated Usability Scores to calculate the Consensus Consolidated Score. The example below shows how the consensus consolidated score will be derived:

End-User ID	Consolidated Usability Scores
1	69.4%
2	55.6%
3	72.2%
4	66.7%
5	69.4%
6	75.0%
7	61.1%
Consensus Consolidated Usability Score:	
67.1%	

- Assessment Criterion #3: CCMi Compliance

Five CCMi Components contained within the Contractor’s delivered software will be assessed on their level of compliance with a subset of high-priority CCMi requirements. The five CCMi Components subject to random compliance testing are:

- 1) Second-order Closure Integrated Puff (SCIPUFF)
- 2) SCIPUFF Weather Input Module (SWIM)
- 3) Nuclear Technology Weapon (NTwpn)
- 4) Radiological Transport For HPAC (RTH)
- 5) Missile Intercept (Mint)

Within the “03-CCMI Compliance” tab contained in the Self-Assessment Scorecard Template, is a list containing 49 CCMI requirements broken into two categories:

1. 20 Highest Priority CCMI Requirements – these will be tested by the Government
2. 29 High Priority CCMI Requirements – these may be tested by the Government.

Also contained within the list are all 49 CCMI Requirements’ associated weightings. Contractors shall deliver a self-check of all components’ (not just the five listed above) compliance with all 49 CCMI Requirements. The Contractor shall deliver this self-check as part of its Self-Assessment Report pursuant to CDRL A001.

The Government will evaluate the Contractor’s delivered software by verifying the software’s compliance with the 20 Highest Priority CCMI Requirements and an undisclosed subset of the 29 High Priority CCMI Requirements. The Component CCMI Compliance Scores will be calculated based on the number of CCMI Requirements met (i.e., complied with) as a percent of all CCMI Requirements tested (i.e., 20 Highest Priority, plus undisclosed subset of the 29 High Priority), with weightings applied. The scoring mechanism is depicted in the example shown below:

Legend	
	= Indicates a CCMI Requirement that will be tested by the Gov't
	= Indicates a CCMI Requirement that may be randomly selected for testing by the Gov't

Req Id	Req Text	Complies?	Relative Weig	Raw Weig
1 CDIR-5	Each CCMI component release shall include an SVD describing the changes in the release.	Not Randomly Selected for Testing	0.00	2
2 CDIR-10	The SVD shall follow the format described in the JPM IS JEM CCMI Component SVD Template.	No	1.11	1
3 CDIR-45	Each CCMI component release shall include a set of test cases that verify the component’s functionality.	Yes	1.11	1
4 CDIR-50	Each component release shall include a test report detailing developer-run tests and results. The test report shall be included in the component V&V Report and follow the format described in the JPM IS JEM CCMI Component V&V Report Template.	Yes	3.33	3
5 CDIR-60	The V&V Report shall follow the format described in the JPM IS JEM CCMI Component V&V Report Template.	Yes	1.11	1
6 CDIR-65	Each CCMI component release shall include a completed CCMI Compliance Spreadsheet.	No	3.33	3

Total Point Score	74.44	67
Missed Points	25.56	23
Not Answered	0.00	0
CCMI Compliance Score:	74.44%	74.44%

The Total CCMI Compliance Score will be calculated based on a roll-up of the five Component CCMI Compliance Scores, as shown below:

Component	CCMI Compliance Scores
SCIPUFF	72.5%
SWIM	81.5%
NTwpm	58.9%
RTH	83.7%
Mint	77.5%

Total CCMI Compliance Score:	74.8%
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In addition to the 20 Highest CCMI Requirements, both Contractors will be tested against the same undisclosed subset of 29 High Priority CCMI Requirements. While the 29 High Priority CCMI Requirements superset will not change, the unidentified subset used for the purposes of the Midterm Assessment may not be the same unidentified subset used for the purposes of the Final Assessment.

- **Assessment Criterion #4: Innovativeness**

The Contractor’s delivered software will be assessed on its level of improvements to five specific areas of innovativeness:

- Hosting in Web Environment
- Hosting in Windows Environment
- Additional Models
- Decoupling SCIPUFF and SWIM
- Web Services

Based on the Contractor’s demonstration of the software and the Government’s independent analysis, the Government will determine the affect the Contractor’s software had on each area of innovativeness. To calculate the Composite Innovativeness Score, the Government will take an average of the Level of Improvement across the four areas of innovativeness. To accomplish this, the levels of improvement will be assigned numeric values as follows:

Level of Improvement	Numeric Value
Substantially Improved	3
Somewhat Improved	2
Neither Improved or Made Worse	1
Made Worse	0

The table below shows how the composite score is reached using sample data:

4	Areas of Innovativeness	Level of Improvement	SCORE
4.1	Hosting in Web Environment	Somewhat improved	2
4.2	Hosting in Windows Environment	Neither improved nor made worse	1
4.3	Additional Models	Substantially improved	3
4.4	Decoupling SCIPUFF and SWIM	Substantially improved	3
4.5	Web Services	Neither improved nor made worse	1

Composite Innovativeness Score:	66.67%
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- **Assessment Criterion #5: Cost Variance**

Contractors will be assessed on their ability to control the project budget. To assess this criterion, the Government will calculate the Contractors’ cost variance percentage (CV%). The CV% indicates how much over or under budget the project is in terms of a percentage. A negative number describes the percent the Contractor is over budget, while a positive number describes the percent the Contractor is under budget. The Government will use the following formula:

$$CV\% = \left(\frac{BCWP - ACWP}{BCWP} \right) * 100$$

Where,

BCWP = Budgeted Cost of Work Performed (BCWP)

ACWP = Actual Cost of Work Performed (ACWP)

The Contractors’ scores for the purposes of this criterion will be adjusted as follows:

Criterion #5 Score = 100 + CV%

The Government will use the Contractors’ most recently delivered Cost Control Report (CDRL A007: CCR) to obtain the data necessary for making the above calculations.

- **Total Assessment Score: Criteria #1-5**

The Total Assessment Score will be calculated by taking the average of the five criteria scores. As such, the five criteria are weighted equally to derive the Total Assessment Score, as shown in the example below:

JEM Incr 2: Down-Select Assessment Criteria

#	Criterion	Metric	Method	Result
1	Contract Compliance	% Compliant	Contract Compliance Checklist	 66.25%
2	Usability	Consolidated Survey Score	Usability Surveys	 69.44%
3	CCMI Compliance Level	% Compliant	CCMI Checklist	 81.50%
4	Innovativeness	Composite Score	Contractor Demo followed by Independent Gov't Analysis	 44.44%
5	Cost Variance	Adjusted Cost Variance %	Standard Formulas using CPR Derived Data	 93.80%
Total Score:				71.09%

Within a reasonable time period following the completion of the Government’s Midterm Assessment, the Government will provide both Contractors with their respective results of the Government’s assessment. The results will be provided via email attachment to the

Contractor’s main point of contact. The results will not be shared, or otherwise made public, to anyone other than the respective Contractor’s main point of contact. The Contractors will have 24 hours to review the Government’s Midterm Assessment results and request in writing a debrief from the Government (oral or written) whereby the Contractor may ask questions pertaining to the Assessment. To the maximum extent practicable, the debrief will occur within 3 days after receipt of the written request.

While the scores derived from the Government’s independent Midterm Assessments will not impact the Contractors’ Final Assessment scores, the Government reserves the right to make the final down-select decision upon conclusion of the Midterm Assessments if it becomes apparent that further effort by one of the Contractors will not substantially improve its competitive position.

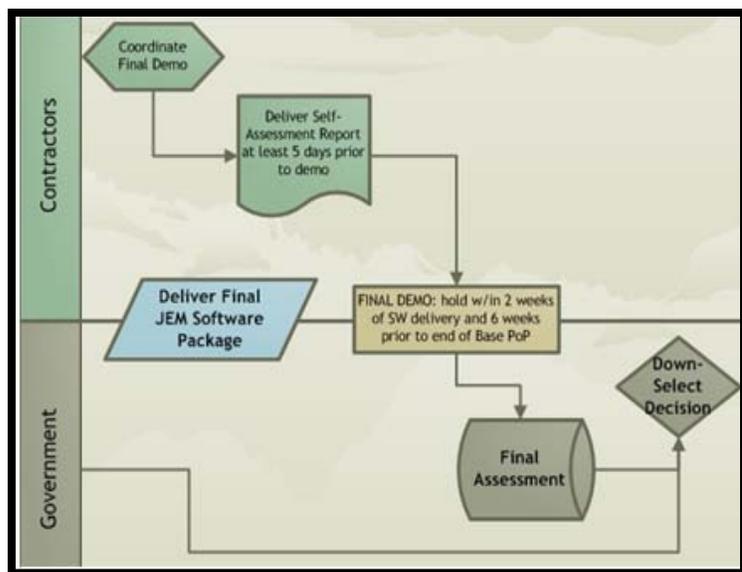
4. Final Demonstration and Government Assessment

The final down-selection assessment events will consist of a Final Demonstration and Final Government Assessment.

4.1 Final Demonstration

The Contractor shall coordinate schedules with the COR at least five weeks prior to the Final Demonstration. The Final Demonstration shall occur within 2

weeks of the Contractor’s final JEM software delivery and at least 30 business days prior to end of the base period.



The Final Demonstration will take place at the JEM Prototyping Lab at SSC PAC. See Appendix A, “JEM Lab Hardware Specifications” for information regarding the machines on which the Contractor will be expected to demonstrate their software. The Contractor may, upon request, be given access to the lab prior to the demo to become familiar with the demo environment. Such request, if made, shall be coordinated at by the Contractor at the time they coordinate schedules for the Final Demo itself. The Government reserves the right to provide access on an as-available basis. Due to the security in the Lab, a Government escort may be required; however, the Government escort will be independent of the JEM Incr 2 software assessment team. This event will be attended by the respective Contractor team, the JEM PMO and JPM IS leadership, SPAWAR 2.0, and representatives of the Warfighter community. The Final Demonstration shall last no more than two consecutive working days.

Final Demonstrations will be conducted in the same manner as the Midterm Demos and Assessments. That is, at least five days prior to the scheduled Final Demonstration, the Contractor shall deliver a completed Self-Assessment Report (CDRL A001) and Briefing Materials (CDRL A002). During this event, the Contractor shall demonstrate its final JEM software and explain how its software meets the assessment criteria. The specific content, format, and duration of the event shall be left in the Contractor's discretion. The Contractor shall provide an anticipated length of time for the event, not to exceed two days, when coordinating schedules five weeks prior to the event.

4.2 The Down-Select Decision: Final Government Assessment

Within two weeks of the Final Demonstrations, the Government will conduct the Final Assessment. The Final Assessment will be based on the independent review and evaluation of the Contractor's software deliverable and Self-Assessment Report. The results of the Final Assessment will be used to support the Government's down-select decision.

The Final Assessment will use the same metrics and methodologies as the Midterm Assessment, except for one difference. Unlike the Midterm Assessment, the Final Assessment will take into account feedback provided by Warfighters. This Warfighter feedback will be obtained through the use of the Usability criterion survey described in Criterion #2 above and provided in the Self-Assessment Scorecard Template (see tab entitled "02-Usability").

The Government will provide Contractors the Government's assessment results via email attachment to the Contractor's main point of contact. The results will not be shared, or otherwise made public, to anyone other than the respective Contractor's main point of contact. Unless the Government needs additional clarification or time to review or produce documentation, the Final Assessment results will include a statement regarding the Government's intent to either award or not award the option. The Contractors will have 24 hours to review the Government's Final Assessment and request, in writing, a debrief from the Government (oral or written) whereby the Contractor may ask questions pertaining to the Assessment. To the maximum extent practicable, the debrief will occur within 3 days after receipt of the written request.

Appendix A: JEM Lab Hardware Specifications

Configuration 1

Attribute	Spec
Base Unit:	Dell Precision T5500 Workstation (224-4858)
Processor:	Dual Six Core Intel Xeon Processor E5645, 2.40GHz,12M L3, 5.86GT/s,FPWS T5500 (317-8044)
Memory:	24GB DDR3 ECC RDIMM Memory,1333MHz,6X4GB,Dell Precision TX500 (317-0317)
Keyboard:	Dell USB Entry Keyboard,No Hot Keys,English,Precision Desktop (331-1965)
Monitor:	Dell P Series P2412H,Widescreen,24in Viewable Image Size,HAS,OptiPlex,Precision and Latitude (320-2765)
Video Card:	Dual 256MB ATI FireMV 2260,Quad Monitor 4DP w/ 4DP to DVI Adapter,Dell Precision T1500, T5500 and T7500 (320-1550)
Hard Drive:	1TB SATA 3.0Gb/s,7200 RPM HardDrive with 32MB DataBurst Cache,Dell Precision TX500 (341-9025)
Hard Drive Controller:	C11 All SATA Hard Drives,RAID 5 for 3 Hard Drives, Dell Precision T5500 (341-8802)
Floppy Disk Drive:	No Floppy Drive, Dell Precision (341-5255)
Operating System:	Windows 7 Professional,No Media, 64-bit,Fixed Precision, English (421-5607)
Operating System:	Windows 7 Label, OptiPlex, Fixed Precision, Vostro Desktop (330-6228)
Operating System:	Dell Client System Update (Updates latest Dell Recommended BIOS, Drivers, Firmware and Apps),Precision Desktop (421-5335)
Mouse:	Dell MS111 USB Optical Mouse,OptiPlex and Fixed Precision (330-9458)
TBU:	Mini-Tower Chassis Configuration,Dell Precision T3400,T5500 (313-5871)
CD-ROM or DVD-ROM Drive:	16X DVD+/-RW Data Only Dell Precision TX500 (313-7457)
CD-ROM or DVD-ROM Drive:	Cyberlink Power DVD 9.5,No Media, Dell OptiPlex, Latitude and Precision Workstation (421-4370)
CD-ROM or DVD-ROM Drive:	Roxio Creator Starter,No Media,Dell OptiPlex, Latitude and Precision Workstation (421-4539)
Speakers:	Internal Chassis Speaker Dell Precision (313-3417)
Cable:	Precision T5500 Power Supply,C2 (330-8365)
Documentation Diskette:	Documentation,English,Dell Precision (330-3156)
Documentation Diskette:	Power Cord,125V,2M,C13,Dell Precision (330-3157)
Additional Storage Products:	1TB SATA 3.0Gb/s,7200 RPM HardDrive with 32MB DataBurst Cache,Dell Precision TX500 (341-9028)
Controller Option:	Integrated Intel chipset SATA 3.0Gb/s controller,Dell Precision T3500 and T5500 (341-9289)

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Feature	No Resource CD for Dell Optiplex,Precision and Latitude Systems (310-9546)
Misc:	Dell P Series P2412H,Widescreen,24in Viewable Image Size,HAS,OptiPlex,Precision and Latitude (320-2765)
Misc:	1TB SATA 3.0Gb/s,7200 RPM HardDrive with 32MB DataBurst Cache,Dell Precision TX500 (341-9028)
Misc:	Shipping Material for System Dell Precision T5500 (330-3970)
Bundled Software:	No Productivity Software,Dell OptiPlex,Precision and Latitude (421-3872)
Service:	Basic Hardware Service: Next Business Day Limited Onsite Service After Remote Diagnosis 2 Year Extended (992-7172)
Service:	Basic Hardware Service: Next Business Day Limited Onsite Service After Remote Diagnosis Initial Year (993-1210)
Service:	Dell Hardware Limited Warranty Plus Onsite Service Extended Year(s) (993-8268)
Service:	Dell Hardware Limited Warranty Plus Onsite Service Initial Year (993-8167)
Service One:	Keep Your Hard Drive, 3 Year (984-1782)
Misc:	This item is not ESTAR qualified (468-9867)
Misc:	State Environmental Fee for display 15 inches, less than 35 inches (600-0002)
Misc:	State Environmental Fee for display 15 inches, less than 35 inches (600-0002)

Configuration 2

Attribute	Spec
Base Unit:	Dell Precision T1600 Standard Base (225-0458)
Processor:	Quad Core Xeon E3-1270, 3.40 GHz, 8M L3, 0GT, Turbo, Dell Precision T1600 (317-6060)
Memory:	8GB, DDR3, Non-ECC SDRAM Memory, 1333MHz, 2x4GB, FPWS T1500 (317-4538)
Keyboard:	Dell USB Entry Keyboard,No Hot Keys,English,Precision Desktop (331-1965)
Monitor:	Dell P Series P2412H,Widescreen,24in Viewable Image Size,HAS,OptiPlex,Precision and Latitude (320-2765)
Video Card:	Dual 512 MB NV Quadro NVS 300, Quad Monitor, Dell Precision T1600 (320-1892)
Hard Drive:	2TB SATA 3.0Gb/s, 7200RPM Hard Drive with 64MB DataBurst Cache,Dell Precision T1600 (342-2147)
Hard Drive Controller:	C1 All SATA or SSD Hard Drives,Non-RAID for 1 Hard Drive,2.5 Inch,Dell Precision T1600 (342-2647)
Floppy Disk Drive:	No Media Card Reader, Precision Desktops (330-5783)
Operating System:	Windows 7 Professional,No Media, 64-bit,Fixed Precision, English (421-5607)
Operating System:	Windows 7 Label, OptiPlex, Fixed Precision, Vostro Desktop (330-6228)
Operating System:	Dell Client System Update (Updates latest Dell Recommended BIOS, Drivers, Firmware and Apps),Precision Desktop (421-5335)
Mouse:	Dell MS111 USB Optical Mouse,OptiPlex and Fixed Precision (330-9458)

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NIC:	Integrated 10/100/1000 Ethernet (430-3246)
TBU:	MT Chassis Conf without 1394 Card,Dell Precision 1394 (342-2165)
CD-ROM or DVD-ROM Drive:	Cyberlink Power DVD 9.5,No Media, Dell OptiPlex, Latitude and Precision Workstation (421-4370)
CD-ROM or DVD-ROM Drive:	Roxio Creator Starter,No Media,Dell OptiPlex, Latitude and Precision Workstation (421-4539)
CD-ROM or DVD-ROM Drive:	16X DVD+/-RW,Data Only,Dell Precision T1600 (318-0614)
Sound Card:	Integrated 2.1 Channel Audio (313-8764)
Speakers:	Internal Speaker,Dell Precision T1600 (318-0867)
Cable:	Precision T1600 265W 65% Efficient Power Supply (318-0761)
Cable:	Dell Data Protection Access,Precision Desktop (421-5090)
Cable:	Enable Low Power Mode for EUP Compliance,Dell Precision Desktop (342-2635)
Cable:	Regulatory Label,Dell Precision T1600 (331-2620)
Documentation Diskette:	Power Cord,125V,2M,C13,Dell Precision (330-3157)
Documentation Diskette:	Documentation,English and French,Dell Precision (331-2477)
Bundled Software:	No Productivity Software,Dell OptiPlex,Precision and Latitude (421-3872)
Factory Installed Software:	No Out-of-Band Systems Management,Dell Precision T1600 (331-2720)
Software Disk Two:	Energy Star Not Selected,Dell Precision Desktop (330-3201)
Feature	No Resource Media (330-2440)
Basic Hardware Service:	Next Business Day Limited Onsite Service After Remote Diagnosis 2 Year
Service:	Extended (938-8592)
Service:	Basic Hardware Service: Next Business Day Limited Onsite Service After Remote Diagnosis Initial Year(951-8750)
Service:	Dell Limited Hardware Warranty Plus Service Extended Year(s) (935-2688)
Service:	Dell Limited Hardware Warranty Plus Service Initial Year (929-6857)
Service One:	Keep Your Hard Drive, 3 Year (984-1782)
Misc:	Dell P Series P2412H,Widescreen,24in Viewable Image Size,HAS,OptiPlex,Precision and Latitude (320-2765)
Misc:	No Quick Reference Guide (330-5527)
Misc:	Shipping Material for System,Dell Precision T1600 (331-1189)

Configuration 3

Attribute	Spec
Base Unit:	Dell Precision T1600 Standard Base (225-0458)
Processor:	Quad Core Xeon E3-1225, 3.10 GHz, 6M L3, 2GT, Turbo, Dell Precision T1600 (317-6059)
Memory:	8GB, DDR3, Non-ECC SDRAM Memory, 1333MHz, 2x4GB, FPWS T1500 (317-4538)
Keyboard:	Dell USB Entry Keyboard, No Hot Keys, English, Precision Desktop (331-1965)
Monitor:	Dell P Series P2412H, Widescreen, 24in Viewable Image Size, HAS, OptiPlex, Precision and Latitude (320-2765)
Video Card:	Dual 512 MB NV Quadro NVS 300, Quad Monitor, Dell Precision T1600 (320-1892)
Hard Drive:	2TB SATA 3.0Gb/s, 7200RPM Hard Drive with 64MB DataBurst Cache, Dell Precision T1600 (342-2147)
Hard Drive Controller:	C1 All SATA or SSD Hard Drives, Non-RAID for 1 Hard Drive, 2.5 Inch, Dell Precision T1600 (342-2647)
Floppy Disk Drive:	No Media Card Reader, Precision Desktops (330-5783)
Operating System:	Windows 7 Professional, No Media, 64-bit, Fixed Precision, English (421-5607)
Operating System:	Windows 7 Label, OptiPlex, Fixed Precision, Vostro Desktop (330-6228)
Operating System:	Dell Client System Update (Updates latest Dell Recommended BIOS, Drivers, Firmware and Apps), Precision Desktop (421-5335)
Mouse:	Dell MS111 USB Optical Mouse, OptiPlex and Fixed Precision (330-9458)
NIC:	Integrated 10/100/1000 Ethernet (430-3246)
TBU:	MT Chassis Conf without 1394 Card, Dell Precision 1394 (342-2165)
CD-ROM or DVD-ROM Drive:	Cyberlink Power DVD 9.5, No Media, Dell OptiPlex, Latitude and Precision Workstation (421-4370)
CD-ROM or DVD-ROM Drive:	Roxio Creator Starter, No Media, Dell OptiPlex, Latitude and Precision Workstation (421-4539)
CD-ROM or DVD-ROM Drive:	16X DVD+/-RW, Data Only, Dell Precision T1600 (318-0614)
Sound Card:	Integrated 2.1 Channel Audio (313-8764)
Speakers:	Internal Speaker, Dell Precision T1600 (318-0867)
Cable:	Precision T1600 265W 65% Efficient Power Supply (318-0761)
Cable:	Dell Data Protection Access, Precision Desktop (421-5090)
Cable:	Enable Low Power Mode for EUP Compliance, Dell Precision Desktop (342-2635)
Cable:	Regulatory Label, Dell Precision T1600 (331-2620)
Documentation Diskette:	Power Cord, 125V, 2M, C13, Dell Precision (330-3157)

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Documentation Diskette:	Documentation,English and French,Dell Precision (331-2477)
Bundled Software:	No Productivity Software,Dell OptiPlex,Precision and Latitude (421-3872)
Factory Installed Software:	No Out-of-Band Systems Management,Dell Precision T1600 (331-2720)
Software Disk Two:	Energy Star Not Selected,Dell Precision Desktop (330-3201)
Feature	No Resource Media (330-2440)
Basic Hardware Service:	Next Business Day Limited Onsite Service After Remote Diagnosis 2 Year
Service:	Extended (938-8592)
Service:	Basic Hardware Service: Next Business Day Limited Onsite Service After Remote Diagnosis Initial Year(951-8750)
Service:	Dell Limited Hardware Warranty Plus Service Extended Year(s) (935-2688)
Service:	Dell Limited Hardware Warranty Plus Service Initial Year (929-6857)
Service One:	Keep Your Hard Drive, 3 Year (984-1782)
Misc:	Dell P Series P2412H,Widescreen,24in Viewable Image Size,HAS,OptiPlex,Precision and Latitude (320-2765)
Misc:	Shipping Material for System,Dell Precision T1600 (331-1189)
Misc:	No Quick Reference Guide (330-5527)