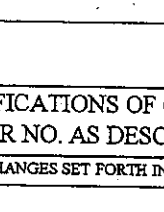
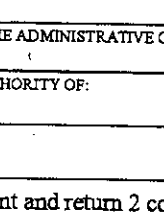
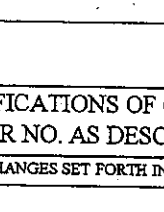
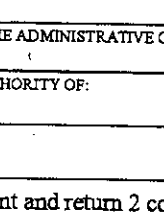
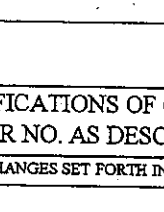
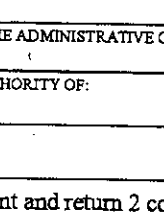


AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE W-19800		PAGE OF PAGE 1 3																			
AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE See Block 16		4. REQUISITION/PURCHASE REQ. NO. see following page		5. PROJECT NO. (If applicable)																			
ISSUED BY ASA/GSFC/Headquarters Procurement Office Mail code 210.H, Attn: John Brett Greenbelt, MD 20771-0001		CODE 210.H		7. ADMINISTERED BY (If other than Item 6)		CODE																			
NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP Code) Science Applications International Corporation 180 Science Applications Court V-48 Falls Church, VA 22183				(4)		9A. AMENDMENT OF SOLICITATION NO.																			
						9B. DATED (SEE ITEM 11)																			
						10A. MODIFICATION OF CONTRACT/ORDER NO. W-19800																			
						10B. DATED (SEE ITEM 13) May 3, 2000																			
DE 52302		FACILITY CODE																							
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS																									
<p>The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended.</p> <p>Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:</p> <p>By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.</p>																									
ACCOUNTING AND APPROPRIATION DATA (If required)																									
see following page.																									
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">(4)</td> <td style="width:5%;">A.</td> <td>THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.</td> </tr> <tr> <td></td> <td>B.</td> <td>THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).</td> </tr> <tr> <td></td> <td>C.</td> <td>THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:</td> </tr> <tr> <td></td> <td>D.</td> <td>OTHER Specify type of modification and authority)</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> <td>52.232-22 Limitation of Funds (April 1984);</td> </tr> </table>								(4)	A.	THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.		B.	THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).		C.	THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:		D.	OTHER Specify type of modification and authority)	X		52.232-22 Limitation of Funds (April 1984);			
(4)	A.	THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.																							
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	D.	OTHER Specify type of modification and authority)																							
X		52.232-22 Limitation of Funds (April 1984);																							
<p>IMPORTANT: Contractor X is not, is required to sign this document and return 2 copies to the issuing office.</p> <p>DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)</p> <p>This modification corrects accounting and appropriation data and adds funding for continued performance</p>																									
<p>Accepted at provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">NAME AND TITLE OF SIGNER (Type or print)</td> <td colspan="2">16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)</td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: center;">John Brett, Contracting Officer</td> </tr> <tr> <td colspan="2">CONTRACTOR/OFFEROR</td> <td>15C. DATE SIGNED</td> <td>16B. UNITED STATES OF AMERICA</td> </tr> <tr> <td colspan="2" rowspan="2">  (Signature of person authorized to sign) </td> <td>BY</td> <td>16C. DATE SIGNED</td> </tr> <tr> <td>  (Signature of Contracting Officer) </td> <td style="text-align: center;">September 19, 2002</td> </tr> </table>								NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)				John Brett, Contracting Officer		CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	 (Signature of person authorized to sign)		BY	16C. DATE SIGNED	 (Signature of Contracting Officer)	September 19, 2002
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 (Signature of person authorized to sign)		BY	16C. DATE SIGNED																						
		 (Signature of Contracting Officer)	September 19, 2002																						

10.0 SPECIAL REQUIREMENTS FOR HEADQUARTERS OFFICES

Pursuant to SOW 10.2 *Tasking Process*, NASA issues revised subtask 10.81(CLIN 0201AC-BT) (There is no cost or award fee pool adjustment for these changes). The period of performance for this subtask continues from the effective date of this modification to May 31, 2003. The 10.81 Statement of Work is attached as Attachment A.

10.0 SPECIAL REQUIREMENTS FOR HEADQUARTERS OFFICES

Pursuant to SOW 10.2 *Tasking Process*, NASA issues revised subtask 10.88(CLIN 0201AC-BF) (There is no cost or award fee pool adjustment for these changes). The period of performance for this subtask continues from the effective date of this modification to May 31, 2003. The 10.88 Statement of Work is attached as Attachment B.

B.5, CONTRACT FUNDING, is revised as follows:

(a). For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to subtask 0201AC-AA (Core) is \$27,710,187.42.

(b). For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to subtasks 0201AC-AC through 0201AC-BV is \$39,309,713.12. This allotment covers the following estimated period of performance 30 May 2000-(see Table A estimated date at which allotment expires)

(c) An additional amount of \$3,901,510.48 is obligated under this contract (CLIN 0201AC-AB) for payment of fee.

ACCOUNTING AND APPROPRIATION DATA

The funds added by this modification also update Block 21 of the SOLICITATION, OFFER AND AWARD, SF33. The accounting and appropriations and funding data for this modification, by subCLIN, is as follows:

Line Item	Task Order	Procurement Request	Fund Source	Appropriation Symbol	Object Class	UPN/HPN	Office/Fin Code	IMS	Costs
0201AC-AA	10.00	10-07913	29	802/30110	2529	405-20-01	SPA00	30-02-01	\$856,534.00
0201AC-AA	10.00	10-07795	54	80230111	2529	379-06-03	MAA00	300204	\$102,274.00
0201AC-AG	10.15	10-08470	52	80120111	2529	575-83	MAA00	300204	\$119,336.00
0201AC-AG	10.15	10-07980	54	80230111	2590	379-02-04	MAA00	30-02-04	\$27,000.00
0201AC-AR	10.57	10-07688	29	802/30110	2529	77110020.03	BAA00	30-02-04	\$205,000.00
0201AC-AT	10.61	10-08506	29	802/30110	2529	749-10	RMA00	30-02-04	\$30,019.00
0201AC-BT	10.81	10-08505	29	802/30110	2529	749-20	RMA00	30-02-04	\$32,091.00
0201AC-BT	10.81	10-08505	29	802/30110	2529	749-40	RMA00	30-02-04	\$93,161.00
0201AC-BT	10.81	10-08505	29	802/30110	2529	749-50	RMA00	30-02-04	\$102,740.00
0201AC-BT	10.81	10-08505	29	802/30110	2529	749-30	RMA00	30-02-04	\$210,008.00
0201AC-BN	10.96	10-08467	29	802/30110	2529	77140032.02	CAA00	30-02-04	\$860,000.00

Line Item	Task Order	Procurement Request	Fund Source	Appropriation Symbol	Object Class	UPN/HPN	Office/Fin Code	IMS	Award Fee
0201AC-AA	10.00A	10-07913	29	802/30110	2529	405-20-01	SPA00	30-02-01	\$40,000.00
0201AC-AA	10.00A	10-07795	54	80230111	2529	379-06-03	MAA00	300204	\$5,000.00

0201AC-AA	10.00A	10-08470	52	80120111	2529	575-83	MAA00	300204	\$10,000.00
0201AC-AA	10.00A	10-07980	54	80230111	2590	379-02-04	MAA00	30-02-04	\$1,000.00
0201AC-AA	10.00A	10-07688	29	802/30110	2529	77110020.03	BAA00	30-02-04	\$12,000.00
0201AC-AA	10.00A	10-08506	29	802/30110	2529	749-10	RMA00	30-02-04	\$10,000.00
0201AC-AA	10.00A	10-08505	29	802/30110	2529	749-20	RMA00	30-02-04	\$10,000.00
0201AC-AA	10.00A	10-08467	29	802/30110	2529	77140032.02	CAA00	30-02-04	\$40,000.00

The following corrects a deobligation that was processed in error on Modification 57. That action had previously been processed as a decommit against unobligated money. \$4,537 is added back to 10.92 funding amounts. Accounting data is for reference only.

0201AB-BJ 10.92 10-08237 29 802/30110 2529 77110025.10 BFA00 10-01-07 \$4,537.00

The following funds are moved from subtask 10.95 to subtask 10.87

Line Item	Task Order	Procurement Request	Fund Source	Appropriation Symbol	Object Class	UPN/HPN	Office/Fin Code	IMS	Costs
0201AC-BM	10.95	10-05563	43	801/20112	2529	777110480.01	COA00	20-09-02	(\$7,720.00)
0201AC-BE	10.87	10-05563	43	801/20112	2529	777110480.01	COA00	20-09-02	\$7,720.00

1. Funding Changes by Subtask

	From	By	To
10.00 \$	26,751,379.42	\$ 958,808.00	\$ 27,710,187.42
10.00A \$	3,773,510.48	\$ 128,000.00	\$ 3,901,510.48
10.15 \$	1,854,546.16	\$ 146,336.00	\$ 2,000,882.16
10.57 \$	987,547.20	\$ 205,000.00	\$ 1,192,547.20
10.61 \$	2,228,630.74	\$ 390,000.00	\$ 2,618,630.74
10.81 \$	1,122,621.00	\$ 438,000.00	\$ 1,560,621.00
10.87 \$	866,932.50	\$ 7,720.00	\$ 874,652.50
10.92 \$	620,605.00	\$ 4,537.00	\$ 625,142.00
10.95 \$	10,591.00	\$ (7,720.00)	\$ 2,871.00
10.96 \$	2,223,214.07	\$ 860,000.00	\$ 3,083,214.07

*10.15 "From " total adjusted to correct \$.58 error on Mod. 28

W-19800
Modification 58
Table A

Subtask CLIN	Task	From	By	To	From	By	To	From	By	To	Current Funding	Est End Date of Funding
0201AB-BS	10.02			\$79,578.00						\$4,249.00	\$79,578.00	closed
0201AB-BR	10.03			\$59,571.00						\$3,826.00	\$59,571.00	closed
0201AB-AC	10.04			\$49,604.41						\$2,988.85	\$49,604.41	closed
0201AC-AD	10.06			\$123,018.53						\$7,914.95	\$79,046.07	4-Oct-02
0201AC-AE	10.08			\$2,941,792.51						\$176,517.30	\$2,841,222.51	04/25/03
0201AC-AF	10.12			\$1,585,087.00						\$96,111.90	\$1,406,357.41	11-Dec-02
0201AC-AG	10.15			\$2,566,397.58						\$164,604.85	\$2,000,882.16	TBD
0201AC-BU	10.16			\$311,228.00						\$17,324.00	\$120,800.00	TBD
0201AC-BV	10.17			\$149,833.00						\$8,959.00	\$149,833.00	6-Dec-02
	10.33										\$234,401.76	closed
0201AC-AH	10.30			\$3,307,199.00						\$181,250.80	\$2,978,155.00	5/31/2003
0201AC-AJ	10.34			\$799,569.53						\$45,982.55	\$628,429.53	TBD
0201AC-AK	10.41			\$1,326,148.13						\$84,121.55	\$1,001,815.13	01/03/03
0201AC-AL	10.46			\$1,144,872.45						\$72,707.00	\$847,710.45	TBD
0201AC-AM	10.47			\$2,001,403.06						\$120,801.00	\$1,592,012.71	2/28/2003
0201AC-AN	10.48			\$531,795.49						\$34,573.75	\$488,545.00	21-Mar-03
0201AB-AO	10.51			\$74,422.00						\$2,978.04	\$74,422.00	20-Dec-02
0201AC-AP	10.52			\$677,842.60						\$41,741.00	\$658,381.20	TBD
0201AC-AQ	10.53			\$5,113,691.16						\$299,778.95	\$4,744,357.16	5-Feb-03
0201AC-AR	10.57			\$1,393,107.56						\$85,954.65	\$1,192,547.20	TBD
0201AB-AS	10.58			\$83,285.93						\$5,050.20	\$83,285.93	
0201AB-AT	10.61			\$2,696,382.00						\$152,272.10	\$2,618,630.74	TBD
0201AC-AU	10.62			\$712,942.77						\$41,793.07	\$547,572.43	15-Feb-03
0201AC-AV	10.66			\$146,239.77						\$9,139.65	\$123,307.77	TBD
0201AC-AW	10.68			\$355,774.04						\$22,441.25	\$243,415.11	TBD
0201AB-AX	10.69			\$151,717.81						\$8,727.10	\$65,177.36	3-May-03
	10.78										\$1,639,285.34	
0201AC-BT	10.81			\$1,570,000.00	\$74,947.50	\$ (590.50)				\$74,357.00	\$1,560,621.00	TBD
0201AC-BC	10.82			\$253,941.00	\$15,510.60	\$ 817.00				\$16,327.60	\$205,458.00	30-Aug-02

W-19800
Modification 58
Table A

0201AC-AZ	10.83				\$664,771.26	\$40,931.35	\$ (226.50)	\$40,704.85	\$558,812.25	01/31/03
0201AB-BA	10.84				\$686,757.52			\$33,852.80	\$607,601.43	
0201AC-BB	10.85				\$806,907.87			\$47,081.90	\$534,048.49	TBD
0201AC-BD	10.86				\$1,177,269.00			\$34,188.17	\$1,016,475.00	13-Mar-03
0201AC-BE	10.87				\$1,240,346.88			\$58,559.90	\$874,652.50	19-Sep-02
0201AC-BF	10.88				\$1,030,792.58			\$61,991.40	\$504,030.00	05/31/03
0201AC-BG	10.89				\$1,720,116.00			\$102,830.80	\$917,000.00	11/08/02
0201AB-BH	10.90				\$51,492.00			\$3,146.80	\$38,281.00	1-May-02
0201AA-BI	10.91				\$3,250,904.00			\$132,034.70	\$1,236,000.00	
0201AB-BJ	10.92				\$625,142.00			\$39,943.58	\$625,142.00	31-May-02
0201AC-BK	10.93				\$139,069.00			\$9,356.50	\$116,307.00	20-Dec-02
0201AC-BL	10.94				\$252,754.00			\$18,085.00	\$195,800.00	15-Feb-02
	10.95								\$2,871.00	closed
0201AC-BN	10.96				\$4,577,397.00			\$320,180.70	\$3,083,214.07	TBD
0201AB-BO	10.97				\$150,042.00			\$9,152.30	\$150,042.00	
0201AC-BP	10.98				\$121,494.00			\$8,215.35	\$112,241.00	1-May-03
0201AC-BQ	10.99				\$587,011.00			\$35,936.00	\$422,770.00	2-Aug-02

Tasks 10.52,10.53, 10.78 funding levels corrected
to reverse prior Table A errors

Award fee for 10.81, 10.82 and 10.83 is revised to correct transposition error on Mod 56

Distributed Collaborative Environment Development and Vision Description of Work

10.81 General

The vendor shall develop a vision for distributed collaboration that supports NASA's goal to operate as a single, integrated NASA team. The task shall also support the design, development and implementation of the Distributed Collaborative Environment Development (DCED). This task involves the acquisition and deployment of high definition audio and visual technologies, new immersion technologies and three-dimensional technologies, and integrating them into the Headquarters facilities infrastructure.

A powerful network environment and well-conceived social architecture can provide a host of advantages to an organization such as: improved and increased communications; more effective technical exchanges, management interactions, and decision-making; an ability to "capture" and distribute knowledge; enhanced efficiency; and a reduced need to travel. Such an advanced network environment essential to transforming the Agency into "One NASA." This task will require significant strategic planning, organizational analysis and requirements definition to ensure that any new network architecture can grow and evolve with the continuing industry advances, and enhance the Agency's mission performance through critical advances in communication and knowledge sharing among NASA scientists, engineers, and managers. It requires a unique expertise in designing for the human interface and cultural aspects of the organization that are often unrecognized requirements plus a knowledge of the technology trends regarding collaboration. With the amount and nature of work required, and the Administrator's desire to implement changes rapidly, it is imperative to use expert guidance in developing a strategic vision for an Agency network infrastructure. That expertise would also develop an implementation framework for this network vision that provides some significant near-term improvements in capabilities and applications.

10.81.1 NASA's Distributed Collaborative Environment Development Vision

10.81.1.1 Requirements

- Develop a Vision for distributed collaboration that supports NASA's goal to operate as a single, integrated NASA team including an associated technology infrastructure for the next generation of distributed collaboration within NASA and with its partners.
- Provide suggestions and recommendations on restructuring the social architecture and process dynamics of the agency to enhance its business and decision making processes. This includes an evaluation of its organizational and decision making process, methods of collaboration, spatial organization and interrelationships between key operational units and useful support tools.

- Develop collaboration scenarios that map to new collaborative constructs extendable across the entire agency including senior leadership, project management, engineering and exchanges between other organizations.

10.81.1.2 Deliverables

1. A Vision document for distributed collaboration in NASA and its implications shall be delivered within 60 calendar days after task order award date.
2. Document recommendations on restructuring the social architecture and process dynamics of the agency to enhance its business and decision making processes, as well as its "capture" and management of knowledge, shall be delivered within 60 calendar days after task order award date.
3. Document a collaborative process based on observations of executive, program management and technical interchanges at NASA, and discussions with selected staff members. These scenarios shall clarify and extend the understanding of the vision and show how it will impact executive level, program management, and technical interchanges at NASA shall be delivered with 60 calendar days after task order award date.
4. Provide briefing of deliverables 1-3 to NASA personnel, to be scheduled at the time of delivery.

10.81.1.3 Parameters

- The Vendor is not required to adhere to specific NASA formats or processes for submission and approval of Deliverables 1 through 4 identified in Section 10.81.1.2. There are no deliverables 1 through 4
- If this effort is awarded 01 June 2002 as anticipated, Deliverables 1 through 3 identified in Section 10.81.1.2 will be due 31 July 2002. That's shot

10.81.2 Conceptual Design

10.81.2.1 Requirements

- A set of top-level system requirements derived from the social architecture, process dynamics, knowledge management, archiving, and collaboration scenarios shall be developed that encompasses the geographically dispersed NASA infrastructure.
- The vendor shall re-evaluate the findings made during the System Requirements Review held on 12/07/00 that included designing, planning and implementation of systems and processes required to support the vision of a DCED infrastructure (12/07/00). The vendor shall either

include these requirements with the System Requirements Document (para. 10.81.2.2 (1)) or justify their omission.

- Develop a Conceptual Design of the information technology infrastructure for enabling the Vision, to include a generic conceptual design for the facilities, operational capabilities, information technology, and the technical infrastructure, which will be needed to implement the vision. The conceptual designs will enable the system requirements to be achieved over a geographically dispersed organization.
- Identify appropriate technical options for possible implementation of conceptual designs.
- Evaluate the NASA network and recommend appropriate testing that will be performed by others to ensure system performance for this conceptual design meets all requirements.
- Develop an initial cost analysis.
- Recommend phasing options based on top-level capability vs. cost tradeoffs.
- Preliminary Systems Description and Interfaces Document. For the Five-Person room, the Panorama Room and the One-Person room for the Administrator, this package will include, visual renderings of the conceptual room designs, major equipment identification, room-within-a-room volumetrics, power requirements, HVAC requirements, and a broad overview of system operation.
- Network Performance Document including desired performance characteristics, a description of Video-Optimized High Speed Networking requirements, a top-level comparison of network alternatives for this application and a discussion of the key network performance parameters affecting the T3 System performance.
- Conceptual Design Documentation for NASA Headquarters including the 5-Person room, the Panorama Room, the Administrator's 1-Person room, and the Hub room. This will include design renderings for each room, baseline T3 System feature set, and description of the system design, preliminary equipment selection list, appropriate technical layouts and basic interface design requirements
- Site-specific architectural and mechanical, electrical and plumbing (MEP) construction drawings for the 5-Person AVTC Room, 1 Person AVTC Room, Panorama Room, and the Hub Room in NASA Headquarters, all suitable for NASA permitting, pricing and room construction.
- Architectural and MEP construction documents for the prototype 5-Person AVTC Room to be provided to NASA for adaptation at 10 NASA Centers.
- An initial cost analysis for build out, test, training, technology upgrade, and operations support of the NASA 13 node T3 System, so that NASA's

financial and contracts staff can perform cost analysis for obtaining resources needed to achieve the goals of the T3 System.

- Project phasing options document based on top-level capability versus cost trade-offs to efficiently and effectively achieve a fully operational telecollaborative technology testbed environment in a timely manner.
- Provide a Preliminary Design Review (PDR). The PDR will take place no later than September 20th, 2002. NASA will provide direction for further development and implementation based on the analysis of the data.

10.81.2.2 Deliverables

- Provide a Systems Requirement Document for the set of top-level system requirements derived from the social architecture, process dynamics, knowledge management, archiving, and collaboration scenarios to be implemented over the geographically dispersed NASA infrastructure shall be delivered within 120 calendar days after task order award date.
- Provide a Conceptual Design(s) of the collaboration facilities, including: Facility layout(s) (i.e., guidelines for room sizing, equipment selection and placement, furnishings, lighting, etc.); technical layout and basic interface design; template for recommended locations at each NASA facility; and emphasis on adaptability to various locations and scenarios shall be delivered within 120 calendar days after task order award date.
- Document appropriate technical options to be considered in the implementation of the conceptual designs within 120 calendar days after task order award date.
- Document the network analysis and the appropriate performance tests within 120 calendar days after task order award date.
- Provide an initial cost analysis needed to achieve the distributed collaborative environment vision within 120 calendar days after task order award date.
- Document phasing options based on top-level capability versus cost trade-offs to achieve the distributed collaborative environment vision over time within 120 calendar days after task order award date.

10.81.2.3 Parameters

- The Vendor is not required to adhere to specific NASA formats or processes for submission and approval of Deliverables 1 through 6 identified in Section 10.81.2.2.
- If this effort is awarded 01 June 2002 as anticipated, Deliverables 1 through 6 identified in Section 10.81.2.2 will be due 29 September 2002.

10.81.3 DCED Implementation

10.81.3.1 Requirements

- Provide a demonstration of a collaborative telepresence system capability for evaluation and risk reduction purposes.
 - Evaluate the efficacy of the system within the distributed collaboration Vision construct.
 - Develop lessons learned and a plan for full implementation
- Support the integration and analysis of a collaborative telepresence system including pricing for two options (The specific recommendations of Option One or Two will be made as part of an evaluation of the Phasing options deliverable of the Conceptual Design paragraph):
 - Option One - Install capability at Headquarters, and in 2 remote Centers for experimental evaluation purposes.
 - Option Two - Mock-up an off site evaluation system to refine the system requirements, performance criteria, and develop whatever custom tools may be required for evaluation and risk reduction.
- The vendor shall deliver a recommendation for the full implementation of the integrated DCED.
- The vendor shall document and present DCED interoperability issues to NASA management.
- The vendor shall evaluate and provide integration strategies to incorporate new system and equipment capabilities to keep current with leading research and development trends. The new equipment could either be showcased temporarily or permanently integrated into the DCED at the direction of NASA management.
- The vendor shall provide project plans, schedules, reviews, design, diagrams, systems integration, security analysis, and procedural documentation, test plans, and transition plans required for the development, implementation and operations of the DCED systems and subsystems to show the migration of the activity to production status.
- The vendor shall perform design testing, integration and performance testing.

10.81.3.1 Deliverables

- A demonstration of a collaborative telepresence system design, technology, and enhancements within 30 calendar days after task order award date. A lessons learned document shall be delivered within 30 days of the completion of the system demonstration.
- Execution of Option One or Option Two as described above within 150 calendar days after task order award date. A plan for agency-wide implementation that incorporates the lessons learned from the selected option, including a total cost estimate to complete, shall be delivered within 180 calendar days after task order award.
- Provide a recommendation for the agency wide integrated DCED deployment.

- Deliver an interoperability issues document and presentation.
- Document evaluation and integration strategies to incorporate new system and equipment capabilities to keep current with leading research and development trends.
- Provide project plans, schedules, reviews, designs, procurement specifications, diagrams, systems integration, security analysis, and procedural documentation required for the development, implementation and operations of the DCED systems and subsystems. Delivery dates will be mutually agreed upon by both parties following PDR for each component.
- Document design testing, integration and performance testing.

10.81.3.2 Parameters

- DCED implementation will be based upon NASA's accepted conceptual design.
- The Vendor is not required to adhere to specific NASA formats or processes for submission and approval of Deliverables 3 through 7 identified in Section 10.81.3.1.
- If this effort is awarded 01 June 2002 as anticipated, Deliverables identified in Section 10.81.3.1 will be due as follows:

○ 30 days after task order award date	01 July 02
○ 120 days after task order award date	11 November 02
○ 150 days after task order award date	18 December 02

10.81.4 Headquarters Operational Support

10.81.4.1 Requirements

- The vendor shall develop, test and implement a set of procedures for operating and scheduling the use of the DCED facilities, maintenance of those facilities, and a method for monitoring the usage of those facilities. This capability shall include recommendations with respect to use and augmentation of existing NASA HQ facilities support, and technical recommendations for how to best maintain them. The vendor shall develop organization-specific DCED IT Plans in support of system requirements.
- The vendor shall provide support DCED assessments. The vendor shall provide the required analysis to determine issues such as minimal network latency, adherence to IT Security constraints, acceptable system performance, subsystem integration, rendering results, and remote processing.
- The vendor shall research, analyze, evaluate products, systems, and subsystems that may be showcased or integrated into the DCED and maintain currency with industry and leading research and development.

- The vendor shall provide presentation material, present technical designs, attend DCED associated management and technical meetings, and recommend changes to the DCED infrastructure, policies, or guidelines as a sustaining engineering activity.
- The vendor shall assist in the development and authoring of technical briefs to other Government agencies.
- The vendor shall support the purchase of hardware and software systems and subsystems to build out and implement the DCED.

10.81.4.2 Deliverables

- Provide all operations, maintenance, user documentation and training for the DCED as specified above.
- The vendor shall document the analysis to determine minimal network latency, adherence to IT Security constraints, acceptable system performance parameters, subsystem integration configuration, rendering results and remote processing.
- The vendor shall document research reports that analyze and evaluate products, systems and subsystems that may be showcased or integrated into the DCED.
- The vendor shall support the development of technical briefs.
- The vendor shall deploy the DCED system at HQS.

10.81.5 General Parameters

- NASA will retain title to all equipment acquired under this task.
- All technologies included in SRR have solutions that are currently acceptable to NASA.
- The vendor will provide estimates for cost of each element.
- Costs may be affected after final design acceptance by NASA management.
- The vendor will notify the Contracting Officer of any changes to the baseline that impact the cost proposal.
- Any deliverables that do not reference a specific due date shall be submitted on a date mutually agreed upon in writing (i.e. Email, memo, etc.) by both parties. The due date must occur by 31 May 2003.

10.81.6 Metrics

The performance standards specified in paragraphs 10.3.3 and 10.3.4 are applicable to this task.

Headquarters Section 508 Accessibility

Description of Work

10.88 General

The vendor shall renovate six representative web applications maintained on NASA Headquarters servers with respect to their compliance to the Architectural and Transportation Barriers Compliance Board's Section 508. The vendor shall provide a plan and defined methodology for the renovation of client/server applications. The vendor shall also work with the Headquarters Webmaster in the ongoing monitoring of the compliance of websites hosted at NASA Headquarters by creating an automated system which will report on compliance issues as well as communicate with website owners via email.

10.88.1 Requirements

The vendor shall provide a solution to the need for automatically catalog the Section 508 compliance of websites hosted at NASA Headquarters. The vendor shall also develop a plan, ROM estimate and schedule to renovate the NASA HQ web-based applications, which reside at or are administered by NASA Headquarters. The Vendor will support the Headquarters Webmaster with the duties inherent in tracking, recording and monitoring the curators of the existing NASA Headquarters-hosted web sites to ensure that the web pages remain compliant and new pages are accessible to individuals with disabilities.

10.88.2 Deliverables

The vendor shall provide the following deliverables:

1. Tools analysis, recommendation and resultant procurement of an automated, web-based system for providing periodic, scheduled reviews of existing and new NASA Headquarters hosted web directories and pages, which assess the accessibility compliance of these pages.

2. Support the Headquarters Webmaster and NASA Agency-wide IT Accessibility Working Group in monitoring, tracking and documenting compliance efforts.
3. Renovate GRIN, Form Search, Knowledge Information Center (KIC) for ISEM, KIC for TWG, KIC for FT and KIC-Z for CATF. Alternatives to these applications may be selected at the discretion of the NASA Task Manager and in accordance with the existing renovation schedule/prioritization plan..

10.88.3 Metrics

The performance standards specified in paragraphs 10.3.1 and 10.3.2 are applicable to this task.