Exhibit 300 (BY2008)

PART ONE	
OVERVIEW	
1. Date of Submission:	2007-02-05
2. Agency:	009
3. Bureau:	25
4. Investment Name:	NIH IT Infrastructure
5. UPI:	009-25-02-00-01-3109-00

6. What kind of investment will this be in FY2008?

Operations and Maintenance

7. What was the first budget year this investment was submitted to OMB?

FY2005

8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap.

The NIH IT Infrastructure supports the NIH mission to uncover new knowledge that will lead to better health for everyone by providing information technology tools to conduct research, award more than $15 billion a year in research grants, and disseminate biomedical research and health information to the public and NIH stakeholders. NIH IT Infrastructure includes: NIHNet NIHNet facilitates the exchange of administrative, clinical and scientific data including medical images and genetic sequence information. It connects NIH buildings on the Bethesda campuses, and in other parts of the U.S. including: Baltimore, MD; Research Triangle Park, NC; Hamilton, MT; and Phoenix, AZ. NIHNet also provides NIH's connection to the Internet and Internet 2. The NIHNet program participates in the planning for and adoption of Internet Protocol Version Six as required by OMB Memorandum M-05-22. NIH Data Center The NIH Data Center is a recognized Federal Data Center hosting mission-critical systems for NIH and other agencies including: ACF, NIST, VA, and GSA. The NIH Data Center has a proven record of administering and managing systems to ensure their availability to users. The Data Center provides both the physical and cyber security appropriate to mission-critical systems. IT Security The NIH IT security program has successfully prevented the loss of the use of the network and associated services. In FY 2005, NIH IT security activities were 99.6% effective against known intrusions. IT Help Desk and Acquisition Support The Help Desk provides a single point of contact for user's IT questions. Help Desk services address user's problems immediately, or direct the request to the appropriate service provider. In FY 2005, the Help Desk resolved 85% of requests for technical support and measured a customer satisfaction rating of 93.3%. NIH provides HHS-wide software licenses through the Information Systems Designated Procurement to acquire software at or below GSA Schedule prices. NIH established and uses the CIOSP2 and ECSIII Government-Wide Acquisition Contracts for procurement of IT hardware and services, reducing costs through the negotiation of prices and simplifying the acquisition process. CPIC and Architectural Review IT Infrastructure and its component parts are reviewed by the Architectural and CPIC Review Boards to ensure that any identified performance gaps are addressed and that future service needs are anticipated and planned for.

9. Did the Agency's Executive/Investment Committee approve this request?

yes

9.a. If "yes," what was the date of this approval?

2006-06-23

10. Did the Project Manager review this Exhibit?

yes

12. Has the agency developed and/or promoted cost effective, energy-efficient and environmentally sustainable techniques or practices for this project.

no

12.a. Will this investment include electronic assets (including computers)?

yes

12.b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only)

no

13. Does this investment support one of the PMA initiatives?

yes

If yes, select the initiatives that apply:

- Competitive Sourcing
- Expanded E-Government
- Financial Performance

13.a. Briefly describe how this asset directly supports the identified initiative(s)?

NIH has aggressively pursued Competitive Sourcing as a way to maximize efficiency and meet the labor requirements of the NIH IT Infrastructure program. NIH has competed Help Desk and Data Center services studies, and is currently planning competition studies for Network and End-User Support services. In addition, NIH employs a number of procurement vehicles, including the CIOSP2 GWACS and the iSDP to reduce both the cost and administrative burden of purchasing IT goods and services.

14. Does this investment support a program assessed using OMB's Program Assessment Rating Tool (PART)?

no

14.a. If yes, does this investment address a weakness found during the PART review?

no

15. Is this investment for information technology (See section 53 for definition)?

yes

16. What is the level of the IT Project (per CIO Council's PM Guidance)?

Level 2

17. What project management qualifications does the Project Manager have? (per CIO Council's PM Guidance)

(1) Project manager has been validated as qualified for this investment

18. Is this investment identified as high risk on the Q4 - FY 2006 agency high risk report (per OMB's high risk memo)?

no

19. Is this a financial management system?

no

19.a. If yes, does this investment address a FFMIA compliance area?

no

19.a.1. If yes, which compliance area:

Not Applicable

20. What is the percentage breakout for the total FY2008 funding request for the following? (This should total 100%)

Hardware	26
Software	10
Services	49
Other	16

21. If this project produces information dissemination products for the public, are these products published to the Internet in conformance with OMB Memorandum 05-04 and included in your agency inventory, schedules and priorities?

n/a

22. Contact information of individual responsible for privacy related questions.

Name

Karen Pla

Phone Number

301-402-6201

Title

NIH Privacy Act Officer

Email

plak@mail.nih.gov

23. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval?

no

SUMMARY OF SPEND

1. Provide the total estimated life-cycle cost for this investment by completing the following table. All amounts represent budget authority in millions, and are rounded to three decimal places. Federal personnel costs should be included only in the row designated Government FTE Cost, and should be excluded from the amounts shown for Planning, Full Acquisition, and Operation/Maintenance. The total estimated annual cost of the investment is the sum of costs for Planning, Full Acquisition, and Operation/Maintenance. For Federal buildings and facilities, life-cycle costs should include long term energy, environmental, decommissioning, and/or restoration costs. The costs associated with the entire life-cycle of the investment should be included in this report.

All amounts represent Budget Authority

(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)

	PY-1 & Earlier	PY	CY	BY
	-2005	2006	2007	2008
Planning Budgetary Resources	0.950	0.000	0.000	0.000
Acquisition Budgetary Resources	52.837	0.000	0.000	0.000
Maintenance Budgetary Resources	504.223	251.263	256.859	262.932
Government FTE Cost	89.359	41.447	43.472	45.296
# of FTEs	334	329	334	334

Note: For the cross-agency investments, this table should include all funding (both managing partner and partner agencies).

Government FTE Costs should not be included as part of the TOTAL represented.

2. Will this project require the agency to hire additional FTE's?

no

3. If the summary of spending has changed from the FY2007 President's budget request, briefly explain those changes.

The FY 2008 NIH IT Infrastructure Budget reflects increased expenses as a result of a more comprehensive definition of IT Infrastructure applied in the planning process. The increased expenses do not represent new spending, but instead represent more accurate accounting for IT Infrastructure spending, including the formal inclusion of IT spending in the intramural research laboratories. NIH expects that there may be additional changes in the Summary of Spending table as a result of the IOI [IT Infrastructure] LoB initiative planning.

PERFORMANCE

In order to successfully address this area of the exhibit 300, performance goals must be provided for the agency and be linked to the annual performance plan. The investment must discuss the agency's mission and strategic goals, and performance measures must be provided. These goals need to map to the gap in the agency's strategic goals and objectives this investment is designed to fill. They are the internal and external performance benefits this investment is expected to deliver to the agency (e.g., improve efficiency by 60 percent, increase citizen participation by 300 percent a year to achieve an overall citizen participation rate of 75 percent by FY 2xxx, etc.). The goals must be clearly measurable investment outcomes, and if applicable, investment outputs. They do not include the completion date of the module, milestones, or investment, or general goals, such as, significant, better, improved that do not have a quantitative or qualitative measure.

All new IT investments initiated for FY 2005 and beyond must use Table 2 and are required to use the FEA Performance Reference Model (PRM). Please use Table 2 and the PRM to identify the performance information pertaining to this major IT investment. Map all Measurement Indicators to the corresponding "Measurement Area" and "Measurement Grouping" identified in the PRM. There should be at least one Measurement Indicator for at least four different Measurement Areas (for each fiscal year). The PRM is available at www.egov.gov.

Table 2

	Fiscal Year	Measurement Area	Measurement Grouping	Measurement Indicator	Baseline	Planned Improvement to the Baseline	Actual Results
1	2005	Mission and Business Results	Scientific and Technological Research and Innovation	Enhance development and application of scientific computing resources	Enhance NIH sharing of IT services with other Federal Agencies and HHS OPDIVs	Develop Standard Memoranda of Understanding and Service Level Agreements and put them in use for new and expanded services.	Established a Memorandum of Understanding (MOU) between CIT and the U.S. Department of Commerce, National Institute of Standards and Technology (NIST) for cooperative use of existing CIT scientific computing resources.
2	2005	Customer Results	Access	Percent availability of IT infrastructure services for NIH and HHS public-facing web pages, including the NIH Home Page, the NIH search engine, and the HHS Home Page	Achieve 99.9% availability for production public-facing webservers	Achieve 99.9% availability for production public-facing webservers	Provided 24/7 web site operations, exceeding the target uptime goal of 99.9% availability
3	2005	Technology	Availability	Percent availability of IT Infrastructure services and activities	Achieve 99.9% availability for Data Center servers for production enterprise applications.	Achieve 99.9% availability for Data Center servers for production enterprise applications.	Provided 24/7 support that exceeded the target uptime goal of 99.9% availability for all Data Center services
4	2005	Technology	Availability	Percent availability of email services to the NIH community	Provide 24/7 email network operations with a 99.94% target uptime during peak business hours.	Provide 24/7 email network operations with a 99.94% target uptime during peak business hours.	Provided 24/7 email network operations, exceeding the target 99.94% uptime during peak business hours.
5	2005	Technology	Functionality	Enhance capability and capacity of NIH scientific computing services	Upgrade NIH Biowulf cluster for better support of scientific computing. Identify and implement	Upgrade NIH Biowulf cluster for better support of scientific computing. Identify and implement	Included the new interconnect technology in the FY2005 Biowulf upgrade. Upgrade

					technologies that provide significant, measurable performance improvement.	technologies that provide significant, measurable performance improvement.	provided 24 - 31% increase in performance.
6	2005	Customer Results	Customer Satisfaction	Percent satisfaction with IT Help Desk services provided to the NIH community	Achieve "Overall Customer Experience" ratings of 90% or better for the NIH Help Desk over the FY 2004 rating of 86.6%.	Improve IT customer support by achieving "Overall Customer Experience" ratings of 90% or better for the NIH Help Desk.	Achieved a customer satisfaction rating of NIH Help Desk usage of 93.3% throughout FY2005, an improvement over 86.6% in FY2004.
7	2005	Customer Results	Accuracy of Service or Product Delivered	Percentage resolution of IT Help Desk problems	Improve IT customer support by increasing the NIH Help Desk problem resolution rate by at least 10% over the FY 2004 resolution rate of 57%.	Improve IT customer support by increasing the NIH Help Desk problem resolution rate by 10%.	Achieved NIH Help Desk resolution of high level technical problems (NIH Enterprise Systems, email, networking, remote access, etc.), improved from a 57% resolution rate in FY2004 to an 85% resolution rate in FY2005.
8	2005	Technology	Availability	Percent availability of Network services to the NIH community	Achieve 99.9% availability to customers for NIH network backbone (NIHnet).	Achieve 99.9% availability to customers for NIH network backbone (NIHnet).	Provided 24/7 support that exceeded the target uptime goal of 99.9% availability for NIHnet.
9	2005	Processes and Activities	Security	Reduce number of "red" vulnerabilities detected on NIH systems	Improve the NIH Vulnerability Management Program by deploying a significantly improved security vulnerability system that proactively monitors intrusions and enhances the protection of the NIH network perimeter	Improve the NIH Vulnerability Management Program by deploying a significantly improved security vulnerability system that proactively monitors intrusions and enhances the protection of the NIH network perimeter	Maintain 139 perimeter and IC-specific firewalls. The number of red vulnerabilities from the last semi-annual scan of FY 2005 reported 3,437 red vulnerabilities, where 1,962 machines were affected.

10	2005	Processes and Activities	Security	Reduce number of viral infection on NIH systems	Reduce virus infections on NIH systems from over 7000 in FY 04. Ensure protection of NIH systems against hacker attacks and malicious code through the use of firewalls, intrusion detection systems, patches, and anti-virus software at multiple levels.	Reduce virus infections on NIH systems. Ensure protection of NIH systems against hacker attacks and malicious code through the use of firewalls, intrusion detection systems, patches, and anti-virus software at multiple levels.	Monitored and filtered over 11.5 million inbound virus attempts in FY2005 at NIH virus walls and e-mail servers. Internal (NIH as originator) server and desktop virus infection attempts was reduced from over 7,000 in FY 2004 to only 924 in FY2005.
11	2005	Processes and Activities	Security	Percent of NIH employees and contractors completing annual NIH Online Security Awareness Training Course	Improve security training and awareness by implementing the annual NIH Online Security Awareness Training course.	Improve security training and awareness by implementing the annual NIH Online Security Awareness Training course.	More than 98% of NIH employees and contractors successfully completed the on-line training course.
12	2005	Processes and Activities	Security	Reduce or eliminate number of material weaknesses identified in annual FISMA audit	Successfully complete the annual FISMA audit with no material weaknesses.	Successfully complete the annual FISMA audit with no material weaknesses.	Completed the FY2005 audit with no material weaknesses.
13	2006	Mission and Business Results	Scientific and Technological Research and Innovation	Enhance development and application of scientific computing resources	Continue use of Standard Memoranda of Understanding and Service Level Agreements for existing services and update for new and expanded services.	Continue use of Standard Memoranda of Understanding and Service Level Agreements for existing services and update for new and expanded services.	Provided support according to the Memorandum of Understanding (MOU) between CIT, Commerce, and NIST for cooperative use of existing CIT scientific computing resources, including dedicated compute nodes funded by NIST
14	2006	Customer Results	Access	Percent availability of	99.9% availability for	Sustain 99.9% availability for	Provided 24/7 web site

				IT infrastructure services for NIH and HHS public-facing web pages, including the NIH Home Page, the NIH search engine, and the HHS Home Page	production public-facing webservers	production public-facing webservers	operations, exceeding the target uptime goal of 99.9% availability
15	2006	Technology	Availability	Percent availability of IT Infrastructure services and activities	99.9% availability for Data Center servers for production enterprise applications.	Sustain 99.9% availability for Data Center servers for production enterprise applications.	Provided 24/7 support that exceeded the target uptime goal of 99.9% availability for all Data Center services.
16	2006	Technology	Availability	Percent availability of email services to the NIH community	Provide 24/7 email network operations with a 99.94% target uptime during peak business hours.	Provide 24/7 email network operations with a 99.94% target uptime during peak business hours.	Provided 24/7 email network operations, exceeding the target 99.94% uptime during peak business hours.
17	2006	Technology	Functionality	Enhance capability and capacity of NIH scientific computing services	Upgrade NIH Biowulf cluster for better support of scientific computing. Identify and implement technologies that provide significant, measurable performance improvement.	Upgrade NIH Biowulf cluster for better support of scientific computing. Identify and implement technologies that provide significant, measurable performance improvement.	Added 294 nodes and additional network switches to the Biowulf cluster to provide additional computational resources and technology refresh for some nodes.
18	2006	Customer Results	Customer Satisfaction	Percent satisfaction with IT Help Desk services provided to the NIH community	Achieve "Overall Customer Experience" ratings of 90% or better for the NIH Help Desk.	Improve IT customer support by achieving "Overall Customer Experience" ratings of 90% or better for the NIH Help Desk.	
19	2006	Customer Results	Accuracy of Service or Product Delivered	Metrics defined in IT Help Desk Service Level Agreement and A76 Help Desk Quality Assurance Service Plan	The NIH Help Desk will meet all service quality metrics as stated in the A76 Help Desk Quality Assurance Service Plan	The NIH Help Desk will meet all service quality metrics as stated in the A76 Help Desk Quality Assurance Service Plan	

					and as stated in the collaborative Help Desk Service Level Agreement with the NIH IC's.	and as stated in the collaborative Help Desk Service Level Agreement with the NIH IC's.	
20	2006	Technology	Availability	Percent availability of Network services to the NIH community	99.9% availability to customers for NIH network backbone (NIHnet).	Sustain 99.9% availability to customers for NIH network backbone (NIHnet).	
21	2006	Technology	Availability	Percent availability of Network services to the NIH community	99.9% network availability to NIH end users by NIHnet and customer LANs	Achieve 99.9% network availability to NIH end users by NIHnet and customer LANs	
22	2006	Technology	Availability	Percent availability of Network services to the NIH community	99.9% NIH availability of Internet and Internet 2 to NIHnet customers	Achieve 99.9% NIH availability of Internet and Internet 2 to NIHnet customers	
23	2006	Technology	Availability	Percent availability of Network services to the NIH community	99.9% NIHnet availability to HHSnet	Achieve 99.9% NIHnet availability to HHSnet	
24	2006	Processes and Activities	Security	Reduce number of "red" vulnerabilities detected on NIH systems	Maintain 139 perimeter and IC-specific firewalls. 3,437 red vulnerabilities on 1,962 affected machines.	Reduce FY 2005 actual results by at least 10%	
25	2006	Processes and Activities	Security	Reduce number of viral infection on NIH systems	Monitored and filtered over 11.5 million inbound virus attempts in FY2005. 924 internal (NIH as originator) server and desktop virus infections in FY2005.	Reduce FY 2005 actual results by at least 10%	
26	2006	Processes and Activities	Security	Percent of NIH employees and contractors completing annual NIH Online Security Awareness Training Course	More than 98% of NIH employees and contractors successfully completed the on-line	Sustain greater than 98% compliance with Online Security and Training course completion.	

					training course.		
27	2006	Processes and Activities	Security	Reduce or eliminate number of material weaknesses identified in annual FISMA audit	No material weaknesses reported in FY 2005 FISMA audit	Successfully complete the annual FISMA audit with no material weaknesses.	
28	2007	Mission and Business Results	Scientific and Technological Research and Innovation	Enhance development and application of scientific computing resources	Enhance NIH sharing of IT services with other Federal Agencies and HHS OPDIVs	Continue use of Standard Memoranda of Understanding and Service Level Agreements for existing services and update for new and expanded services.	
29	2007	Customer Results	Access	Percent availability of IT infrastructure services for NIH and HHS public-facing web pages, including the NIH Home Page, the NIH search engine, and the HHS Home Page	99.9% availability for production public-facing webservers	Sustain 99.9% availability for production public-facing webservers	
30	2007	Technology	Availability	Percent availability of IT Infrastructure services and activities	99.9% availability for Data Center servers for production enterprise applications.	Sustain 99.9% availability for Data Center servers for production enterprise applications.	
31	2007	Technology	Availability	Percent availability of email services to the NIH community	Provide 24/7 email network operations with a 99.94% target uptime during peak business hours.	Provide 24/7 email network operations with a 99.94% target uptime during peak business hours.	
32	2007	Technology	Functionality	Enhance capability and capacity of NIH scientific computing services	Upgrade NIH Biowulf cluster for better support of scientific computing. Identify and implement technologies that provide significant,	Upgrade NIH Biowulf cluster for better support of scientific computing. Identify and implement technologies that provide significant,	

					measurable performance improvement.	measurable performance improvement.	
33	2007	Customer Results	Customer Satisfaction	Percent satisfaction with IT Help Desk services provided to the NIH community	Achieve "Overall Customer Experience" ratings of 90% or better for the NIH Help Desk.	Sustain IT customer support by achieving "Overall Customer Experience" ratings of 90% or better for the NIH Help Desk.	
34	2007	Customer Results	Accuracy of Service or Product Delivered	Metrics defined in IT Help Desk Service Level Agreement and A76 Help Desk Quality Assurance Service Plan	The NIH Help Desk will meet all service quality metrics as stated in the A76 Help Desk Quality Assurance Service Plan and as stated in the collaborative Help Desk Service Level Agreement with the NIH IC's.	The NIH Help Desk will meet all service quality metrics as stated in the A76 Help Desk Quality Assurance Service Plan and as stated in the collaborative Help Desk Service Level Agreement with the NIH IC's.	
35	2007	Technology	Availability	Percent availability of Network services to the NIH community	99.9% availability to customers for NIH network backbone (NIHnet).	Sustain 99.9% availability to customers for NIH network backbone (NIHnet).	
36	2007	Technology	Availability	Percent availability of Network services to the NIH community	99.9% network availability to NIH end users by NIHnet and customer LANs	Sustain 99.9% network availability to NIH end users by NIHnet and customer LANs	
37	2007	Technology	Availability	Percent availability of Network services to the NIH community	99.9% NIH availability of Internet and Internet 2 to NIHnet customers	Sustain 99.9% NIH availability of Internet and Internet 2 to NIHnet customers	
38	2007	Technology	Availability	Percent availability of Network services to the NIH community	99.9% NIHnet availability to HHSnet	Sustain 99.9% NIHnet availability to HHSnet	
39	2007	Processes and Activities	Security	Reduce number of "red" vulnerabilities detected on NIH systems	Number of FY 2006 "red" vulnerabiliites	Reduce FY 2006 actual results by at least 10%	

40	2007	Processes and Activities	Security	Reduce number of viral infection on NIH systems	Number of FY 2006 viral infections	Reduce FY 2006 actual results by at least 10%	
41	2007	Processes and Activities	Security	Percent of NIH employees and contractors completing annual NIH Online Security Awareness Training Course	FY 2006 percent of NIH employees and contractors completing the annual Online Security Awareness Training Course	Sustain greater than 98% compliance with Online Security and Training course completion.	
42	2007	Processes and Activities	Security	Reduce or eliminate number of material weaknesses identified in annual FISMA audit	No material weaknesses reported in FY 2006 FISMA audit	Successfully complete the annual FISMA audit with no material weaknesses.	

EA

In order to successfully address this area of the business case and capital asset plan you must ensure the investment is included in the agency's EA and Capital Planning and Investment Control (CPIC) process, and is mapped to and supports the FEA. You must also ensure the business case demonstrates the relationship between the investment and the business, performance, data, services, application, and technology layers of the agency's EA.

1. Is this investment included in your agency's target enterprise architecture?

yes

2. Is this investment included in the agency's EA Transition Strategy?

yes

2.a. If yes, provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment.

NIH IT Infrastructure

3. Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.whitehouse.gov/omb/egov/.

Component: Use existing SRM Components or identify as NEW. A NEW component is one not already identified as a service component in the FEA SRM.

Reused Name and UPI: A reused component is one being funded by another investment, but being used by this investment. Rather than answer yes or no, identify the reused service component funded by the other investment and identify the other investment using the Unique Project Identifier (UPI) code from the OMB Ex 300 or Ex 53 submission.

Internal or External Reuse?: Internal reuse is within an agency. For example, one agency within a department is reusing a service component provided by another agency within the same department. External reuse is one agency within a department reusing a service component provided by another agency in another department. A good example of this is an E-Gov initiative service being reused by multiple organizations across the federal government.

Funding Percentage: Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the funding level transferred to another agency to pay for the service.

	Agency Component Name	Agency Component Description	Service Type	Component	Reused Component Name	Reused UPI	Internal or External Reuse?	Funding %
1	NIHNet	Central backbone	Organizational	Network			Internal	2

		network providing network services across NIH	Management	Management				
2	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
3	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
4	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
5	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
6	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
7	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
8	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
9	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
10	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
11	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
12	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
13	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
14	NIHNet	Central backbone network providing network services across NIH	Organizational Management	Network Management			Internal	2
15	NIHLogin	Central backbone	Security	Identification			Internal	2

		network providing network services across NIH	Management	and Authentication				
16	NIHLogin	Central backbone network providing network services across NIH	Security Management	Identification and Authentication			Internal	2
17	NIH Application Integraion Infrastructure	Shared Application Integration Infrastructure providing Integration Broker and Enterprise Service Bus (ESB) capabilities	Development and Integration	Enterprise Application Integration			Internal	1
18	NIH Application Integraion Infrastructure	Shared Application Integration Infrastructure providing Integration Broker and Enterprise Service Bus (ESB) capabilities	Development and Integration	Enterprise Application Integration			Internal	1
19	NIH Application Integraion Infrastructure	Shared Application Integration Infrastructure providing Integration Broker and Enterprise Service Bus (ESB) capabilities	Development and Integration	Enterprise Application Integration			Internal	1
20	NIH Application Integraion Infrastructure	Shared Application Integration Infrastructure providing Integration Broker and Enterprise Service Bus (ESB) capabilities	Development and Integration	Enterprise Application Integration			Internal	1
21	NIH Data Center Servics	Computing Services, Application Development	Development and Integration	Enterprise Application Integration			Internal	1
22	NIH Data Center Servics	Computing Services, Application Development	Development and Integration	Enterprise Application Integration			Internal	1
23	NIH Data Center Servics	Computing Services, Application Development	Development and Integration	Enterprise Application Integration			Internal	1
24	NIH Data Center Servics	Computing Services, Application Development	Development and Integration	Enterprise Application Integration			Internal	1
25	NIH Data Center Servics	Computing Services, Application Development	Data Management	Data Exchange			Internal	1
26	NIH Data Center Servics	Computing Services, Application Development	Data Management	Data Exchange			Internal	1

27	NIH Data Center Servics	Computing Services, Application Development	Data Management	Data Exchange			Internal	1
28	NIH Data Center Servics	Computing Services, Network and Telecommunication Services	Security Management	Digital Signature Management			Internal	1
29	NIH Data Center Servics	Computing Services, Network and Telecommunication Services	Security Management	Digital Signature Management			Internal	1
30	NIH Data Center Servics	Computing Services	Collaboration	Email			Internal	1
31	NIH Data Center Servics	Computing Services	Collaboration	Email			Internal	1
32	NIH Data Center Servics	Computing Services	Collaboration	Shared Calendaring			Internal	1
33	NIH Data Center Servics	Computing Services	Communication	Event / News Management			Internal	1
34	NIH Data Center Servics	Computing Services	Communication	Video Conferencing			Internal	1
35	NIH Data Center Servics	Computing Services	Communication	Instant Messaging			Internal	1
36	NIH Data Center Servics	Computing Services	Communication	Real Time / Chat			Internal	1
37	NIH Data Center Servics	Computing Services	Systems Management	Remote Systems Control			Internal	1
38	NIH Data Center Servics	Computing Services	Organizational Management	Workgroup / Groupware			Internal	1
39	NIH Network Security	Network and Telecommunications Services	Security Management	Intrusion Detection			Internal	2
40	NIH Network Security	Network and Telecommunications Services	Security Management	Intrusion Prevention			Internal	2
41	NIH Network Security	Network and Telecommunications Services	Security Management	Virus Protection			Internal	2
42	NIH IT Infrastructure Support	Customer Services, Computing Services	Asset / Materials Management	Computers / Automation Management			Internal	2
43	NIH IT Infrastructure Support	Customer Services, Computing Services	Asset / Materials Management	Computers / Automation Management			Internal	2
44	NIH IT	Customer Services,	Asset /	Computers /			Internal	2

	Infrastructure Support	Computing Services	Materials Management	Automation Management				
45	NIH IT Infrastructure Support	Customer Services, Computing Services	Asset / Materials Management	Computers / Automation Management			Internal	2
46	NIH IT Infrastructure Support	Customer Services, Computing Services	Asset / Materials Management	Computers / Automation Management			Internal	2
47	NIH IT Infrastructure Support	Customer Services, Computing Services	Asset / Materials Management	Computers / Automation Management			Internal	2
48	NIH IT Infrastructure Support	Customer Services, Computing Services	Management of Processes	Configuration Management			Internal	2
49	NIH IT Infrastructure Support	Customer Services, Computing Services	Management of Processes	Configuration Management			Internal	2
50	NIH IT Infrastructure Support	Customer Services, Computing Services	Management of Processes	Configuration Management			Internal	2
51	NIH IT Infrastructure Support	Customer Services, Computing Services	Management of Processes	Configuration Management			Internal	2
52	NIH IT Infrastructure Support	Customer Services, Computing Services	Management of Processes	Configuration Management			Internal	2
53	NIH IT Help Desk	Customer	Systems Management	Issue Tracking			Internal	2
54	NIH IT Help Desk	Customer Service	Customer Initiated Assistance	Assistance Request			Internal	2
55	NIH IT Help Desk	Customer Service	Customer Relationship Management	Call Center Management			Internal	2
56	NIH IT Help Desk	Information Security and Awareness Office	Security Management	Certification and Accreditation			Internal	2
57	NIH IT Security	Information Security and Awareness Office	Security Management	FISMA Management and Reporting			Internal	2
58	NIH IT Security	Information Security and Awareness Office	Security Management	Incident Response			Internal	2
59	NIH Data Center Servics	Computing Services	Collaboration	Email			Internal	0
60	NIH Data Center Servics	Computing Services	Collaboration	Email			Internal	0

4. To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.

FEA SRM Component: Service Components identified in the previous question should be entered in this column. Please enter multiple rows for FEA SRM Components supported by multiple TRM Service Specifications.

Service Specification: In the Service Specification field, Agencies should provide information on the specified technical standard or vendor product mapped to the FEA TRM Service Standard, including model or version numbers, as appropriate.

	SRM Component	Service Area	Service Category	Service Standard	Service Specification (i.e., vendor and product name)
1	Network Management	Service Access and Delivery	Service Transport	Service Transport	TCP/IP
2	Network Management	Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network (LAN)	Ethernet
3	Network Management	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	Frame Relay
4	Network Management	Service Access and Delivery	Service Transport	Service Transport	HTTP
5	Network Management	Service Access and Delivery	Service Transport	Service Transport	HTTPS
6	Network Management	Service Access and Delivery	Service Transport	Supporting Network Services	SNMP
7	Network Management	Service Access and Delivery	Service Transport	Supporting Network Services	LDAP, X.400
8	Network Management	Service Access and Delivery	Service Transport	Service Transport	FTP
9	Network Management	Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)	Various
10	Network Management	Service Access and Delivery	Service Transport	Supporting Network Services	Various
11	Network Management	Service Platform and Infrastructure	Support Platforms	Platform Independent	J2EE, Linux
12	Network Management	Service Platform and Infrastructure	Support Platforms	Platform Dependent	Windows, Microsoft.Net, Apple Mac OS
13	Network Management	Service Platform and Infrastructure	Delivery Servers	Web Servers	Various
14	Network Management	Service Platform and Infrastructure	Database / Storage	Storage	NAS, SAN
15	Identification and Authentication	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	CA SiteMinder
16	Identification and Authentication	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	Microsoft Active Directory
17	Enterprise Application Integration	Service Interface and Integration	Integration	Enterprise Application Integration	TIBCO BusinessWorks
18	Enterprise Application Integration	Service Interface and Integration	Integration	Middleware	TIBCO EMS
19	Enterprise Application Integration	Service Interface and Integration	Interoperability	Data Transformation	TIBCO BusinessWorks
20	Enterprise Application Integration	Component Framework	Security	Supporting Security Services	CA TransactionMinder

21	Enterprise Application Integration	Service Access and Delivery	Access Channels	Web Browser	Various
22	Enterprise Application Integration	Service Platform and Infrastructure	Database / Storage	Database	Oracle, Various
23	Enterprise Application Integration	Service Platform and Infrastructure	Support Platforms	Platform Independent	EJB
24	Enterprise Application Integration	Component Framework	Business Logic	Platform Dependent	JavaScript
25	Data Exchange	Component Framework	Presentation / Interface	Static Display	HTML
26	Data Exchange	Component Framework	Presentation / Interface	Dynamic Server-Side Display	JSP
27	Data Exchange	Component Framework	Presentation / Interface	Dynamic Server-Side Display	ASP.Net
28	Digital Signature Management	Component Framework	Security	Certificates / Digital Signatures	Secure Sockets Layer (SSL)
29	Digital Signature Management	Component Framework	Security	Certificates / Digital Signatures	Digital Certificate
30	Email	Service Access and Delivery	Access Channels	Collaboration / Communications	Microsoft Exchange
31	Email	Service Access and Delivery	Access Channels	Collaboration / Communications	Microsoft Exchange
32	Event / News Management	Service Access and Delivery	Access Channels	Collaboration / Communications	Listserv
33	Email	Service Access and Delivery	Service Transport	Supporting Network Services	IMAP/POP3, MIME, S/MIME, SMTP
34	Video Conferencing	Service Platform and Infrastructure	Delivery Servers	Media Servers	Macromedia Breeze
35	Instant Messaging	Service Access and Delivery	Access Channels	Collaboration / Communications	Various
36	Real Time / Chat	Service Access and Delivery	Access Channels	Collaboration / Communications	Various
37	Remote Systems Control	Service Access and Delivery	Service Transport	Supporting Network Services	Microsoft SMS
38	Workgroup / Groupware	Service Access and Delivery	Access Channels	Collaboration / Communications	Plumtree and Wiki
39	Intrusion Detection	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Various
40	Intrusion Prevention	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Various
41	Virus Protection	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Various
42	Computers / Automation Management	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Various
43	Computers / Automation	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Random Access Memory

	Management				
44	Computers / Automation Management	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Hard Disk Drive
45	Computers / Automation Management	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Microprocessor
46	Computers / Automation Management	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Redundant Array of Independent Disks (RAID)
47	Computers / Automation Management	Service Platform and Infrastructure	Hardware / Infrastructure	Peripherals	Various
48	Configuration Management	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Issue Management
49	Configuration Management	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Task Management
50	Configuration Management	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Chanage Management
51	Configuration Management	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Deployment Management
52	Configuration Management	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Requirment Management and Traceability
53	Assistance Request	Service Access and Delivery	Service Transport	Supporting Network Services	Remedy
54	Call Center Management	Service Access and Delivery	Service Transport	Supporting Network Services	Remedy
55	Issue Tracking	Service Access and Delivery	Service Transport	Supporting Network Services	Remedy
56	Certification and Accreditation	Service Access and Delivery	Service Requirements	Legislative / Compliance	Watchfire
57	FISMA Management and Reporting	Service Access and Delivery	Service Requirements	Legislative / Compliance	Prosight
58	Incident Response	Service Access and Delivery	Service Requirements	Legislative / Compliance	Various
59	Email	Service Access and Delivery	Access Channels	Wireless / PDA	RIM Blackberry
60	Email	Service Platform and Infrastructure	Support Platforms	Wireless / Mobile	RIM-Exchange Bridge

5. Will the application leverage existing components and/or applications across the Government (i.e., FirstGov, Pay.Gov, etc)?

yes

5.a. If yes, please describe.

Yes. The NIH infrastructure provides services to all applications that execute on it. Examples of NIH leveraging its IT infrastructure includes services delivered by the Electronic Research Administration (eRA) system which allows electronic submission of grant applications by research organizations seeking NIH funding and the NIH Business System (NBS) which expands the use of electronic purchasing and payment transactions with vendors.

6. Does this investment provide the public with access to a government automated information system?

yes

6.a. If yes, does customer access require specific software (e.g., a specific web browser version)?

no

PART THREE

RISK

You should perform a risk assessment during the early planning and initial concept phase of the investmentâ€™s life-cycle, develop a risk-adjusted life-cycle cost estimate and a plan to eliminate, mitigate or manage risk, and be actively managing risk throughout the investmentâ€™s life-cycle.

Answer the following questions to describe how you are managing investment risks.

1. Does the investment have a Risk Management Plan?

yes

1.a. If yes, what is the date of the plan?

2004-05-30

1.b. Has the Risk Management Plan been significantly changed since last year's submission to OMB?

no

COST & SCHEDULE

1. Was operational analysis conducted?

yes

1.a. If yes, provide the date the analysis was completed.

2006-12-31

What were the results of your operational analysis?

NIH IT Infrastructure is a steady state investment that undergoes Evaluation reviews on its component programs. Operational analyses for the component programs include comparison of established performance measures to the planned and actual spending for the services provided. The results of the operational analyses are reviewed by the NIH CIO, the CPIC Review Board (Technical Review Board equivalent), the Information Technology Working Group (ITWG) and the Management and Budget Working Group (MBWG) (which together are the ITIRB equivalent). Funding decisions for central IT Infrastructure are made by the MBWG. NIH Institutes and Centers make funding decisions for hardware, software, and services which are not centrally provided. To validate its information technology infrastructure spending, NIH from time to time commissions independent third-party benchmark analyses. Most recently Gartner, Inc., an industry leader in IT measurement, studied NIHNet (FY 2005) and telecommunications operations (FY 2006) expenditures. Gartner compared NIH expenses to other organizations with infrastructure of similar size and complexity and found NIH spending reasonable and appropriate within the bounds of measurement error. Gartner identified opportunities for NIH to improve process management and reduce expenditures. NIH is pursuing the areas for process management and expense reduction.