MODEL LANGUAGE FOR LETTER OF AGENCY

Memorandum of Agreement between

The Department of Homeland Security, Office of Cybersecurity and Communications

and

Relating to the Deployment of EINSTEIN Cybersecurity Capabilities

- I. **Parties.** This Memorandum of Agreement (Agreement) is entered into between the (hereinafter) and the Department of Homeland Security (DHS), Office of Cybersecurity and Communications (CS&C), collectively, "the Parties."
- II. **Authority.** This Agreement is concluded pursuant to authorities applicable to the Parties, including the Homeland Security Act of 2002 (6 U.S.C. §§ 101 *et seq.*); the Federal Information Security Management Act of 2002 (FISMA) (44 U.S.C. §§ 3541 *et seq.*); Homeland Security Presidential Directive-7; and National Security Presidential Directive-54/Homeland Security Presidential Directive-23.
- III. **Preexisting Agreements.** This Agreement supersedes previous agreements between the Parties related to the deployment of EINSTEIN capabilities.
- IV. Scope. This Agreement covers the EINSTEIN intrusion prevention security services as well as all previously deployed EINSTEIN capabilities (i.e., EINSTEIN 1 and EINSTEIN 2). Any future capabilities will be addressed in a mutually agreed upon modification to this Agreement or new agreement.

V. , in furthering its responsibility to provide information security protections Purpose. for its Internet facing or connected information and information systems, requests that CS&C deploy and operate EINSTEIN cybersecurity capabilities on information systems to look for network traffic indicating known or suspected malicious cyber activity. CS&C is deploying these EINSTEIN capabilities to information systems in furtherance of the DHS responsibilities to protect, defend, and reduce vulnerabilities of Federal Systems; compile and analyze information about incidents threatening Federal information security; and inform operators of agency information systems about current and potential information security threats. This Agreement establishes the responsibilities and CS&C in connection with the deployment and operation of EINSTEIN of capabilities.

VI. Background.

- A. The EINSTEIN capabilities are part of the DHS National Cybersecurity Protection System (NCPS), which is controlled and operated by CS&C and its U.S. Computer Emergency Readiness Team (US-CERT) for cybersecurity purposes. Deployment of the EINSTEIN capabilities to Federal Systems enhances the ability of participating agencies to provide effective information security protection for their information and information systems. It also provides US-CERT with the ability to carry out DHS cybersecurity responsibilities under applicable authorities and Executive Branch direction in support of the following core cybersecurity mission areas:
 - Protection protecting participating agency information and information systems through the detection and prevention of intrusions and the mitigation of known or suspected cybersecurity threats;
 - Victim Identification identifying compromised agency information systems, system components, or host computers to permit participating agencies to locate compromised hosts, components, and systems and respond to cyber incidents;
 - **Situational Awareness** developing and maintaining overall situational awareness regarding the cybersecurity status of Federal Systems; and
 - **Discovery** identifying and analyzing new or emerging cybersecurity threats targeting Federal Systems to enhance these protection, victim identification, and situational awareness missions.
- B. The DHS cybersecurity mission is furthered through the deployment of three EINSTEIN capabilities: the collection and analysis of connection summary, commonly called "net flow", data; signature-based intrusion detection; and intrusion

¹ For the purposes of this Memorandum of Agreement, the term "Federal Systems" has the same meaning as in National Security Presidential Directive 54/Homeland Security Presidential Directive 23, which defines "Federal Systems" to include all Federal Government information systems except for (i) National Security Systems of Federal agencies and (ii) Department of Defense information systems.

- prevention and real-time threat mitigation with enhanced net flow and intrusion detection. These complementary capabilities provide a more complete view of an agency's information system as well as the ability for US-CERT to obtain consolidated cybersecurity situational awareness across all Federal Systems.
- C. EINSTEIN capabilities are provided through a combination of commercial off-the-shelf hardware and software, government developed software, and commercially available managed security services enhanced by DHS-provided information. All system and service components are deployed in appropriately secured DHS-operated and/or approved government or contractor facilities. EINSTEIN functional capabilities are under the operational control of US-CERT and are operated by US-CERT personnel or by government contractor personnel in accordance with the DHS cybersecurity mission.
- D. EINSTEIN capabilities are deployed at Office of Management and Budget (OMB)-approved Agency Trusted Internet Connection Access Providers (TICAPs), Managed Trusted Internet Protocol Service (MTIPS) enclaves servicing General Services Administration (GSA) Networx customers, and Internet service provider (ISP) intrusion prevention system enclaves.
- VII. **Responsibilities.** As part of 's request to receive EINSTEIN capabilities from CS&C and CS&C's agreement to provide those capabilities to , the Parties agree on the following responsibilities.

A. Agency Responsibilities.

1. General Responsibilities.

- a. Designate a technical point of contact to coordinate with CS&C on matters involving implementation of EINSTEIN capabilities;
- b. Designate an operational point of contact who will facilitate information sharing related to operational cybersecurity incidents impacting 's network, who must hold an active TOP SECRET/SCI security clearance if agency desires access to classified information about such incidents;
- c. Designate a legal point of contact to coordinate with CS&C on matters involving legal or policy changes related to EINSTEIN and the releasing of any information related to EINSTEIN to the public or in connection with any other requests, inquiries, court proceedings or other legal process.
- d. Work through the technical point of contact to identify an authorized individual who will provide feedback to CS&C during test events for EINSTEIN capabilities and, as necessary, actively participate in test events;

- e. If requesting additional analytic or troubleshooting support, provide CS&C with any available and appropriate network map of internal systems and network topology diagrams to aid analysis, troubleshooting, and incident response by US-CERT and notify, in writing, the CS&C technical point of contact within 30 days of when the network topology is modified;
- f. Enter into a Service Level Objectives (SLO) agreement with US-CERT to further define information exchange, services and deliverables in connection with EINSTEIN operations.
- g. Notify the CS&C technical point of contact of any circumstances that would impact the operations of the EINSTEIN equipment, including any planned or proposed network modifications affecting EINSTEIN equipment functionality;
- h. Manage and maintain all contractual relationships with ISPs and any other service providers regarding the delivery of traffic;
- i. Notify the CS&C technical point of contact in writing of any changes to Internet services that could potentially impact EINSTEIN operations, including provisioned Internet service bandwidth, addition or deletion to the IP addresses previously provided to CS&C that are assigned to or otherwise associated with traffic for Internet service, or changes in ISPs or service level agreements;
- j. Within 30 days of when DHS notifies that its intrusion prevention security services ISP is prepared to provide services, authorize, through a Letter of Agency similar to the model in Appendix D, participating intrusion prevention security services ISPs to fully cooperate with DHS in deploying EINSTEIN capabilities on 's networks, to reroute, modify, and/or reconfigure any of 's Internet traffic handled by such ISPs, in accordance with the requirements of this Agreement and any jointly agreeable written Addendum and/or supplemental agreement, and to disclose to US-CERT network traffic and any information relating to 's networks that is necessary to accomplish the EINSTEIN deployment described in this Agreement and any jointly agreeable written Addendum and/or supplemental agreement;
- k. Provide CS&C with a complete and accurate list of Internet Protocol (IP) addresses associated with traffic assigned by each participating intrusion prevention security services ISP and inform the CS&C technical point of contact in writing of any planned changes to that IP address list at least 30 days prior to implementation of the change by the ISP;

- l. Ensure that the IP addresses provided to CS&C under section VI.A.1.k are associated exclusively with federal government traffic, and do not contain any IP addresses associated with non-federal traffic;
- m. Modify or otherwise conform existing or future contracts, service level agreements, or other relationships with participating intrusion prevention security services ISPs, as necessary, to enable the in-line delivery of intrusion prevention security services capabilities as part of the delivery of traffic, modify Service Level Agreements as necessary to account for the operation of EINSTEIN equipment, and enable the Parties to carry out their responsibilities under this Agreement and any jointly agreeable written Addendum and/or supplemental agreement;
- n. Share with US-CERT all summary and statistical information and analysis developed by using EINSTEIN data provided to by CS&C;
- o. Coordinate, as appropriate, with Federal entities that have law enforcement and other cybersecurity responsibilities related to any cyber incidents detected through EINSTEIN operations;
- p. Revise, as necessary, any applicable external website privacy policies to include notice of the deployment of the EINSTEIN capabilities (model language that may be appropriate for such agency website privacy policies is provided in Appendix C);
- q. Notify CS&C of any special information handling or security requirements arising from law, regulation, or policy applicable to information and coordinate with the CS&C technical and legal points of contact to develop a jointly agreeable written addendum to this Agreement and work with CS&C to institute appropriate safeguards for any such information or information systems;
- r. Notify the CS&C technical and/or legal point of contact of any legal or policy changes affecting the ability to lawfully implement the EINSTEIN capabilities on 's networks;
- s. Serve as the "agency of record" for any information collected by CS&C through EINSTEIN operations, and respond to any requests for information received in accordance with the Freedom of Information Act (FOIA); congressional, Government Accountability Office, or Inspector General inquiries; court proceedings; or other legal process; and
- t. Coordinate with the CS&C technical and legal points of contact pursuant to section VI.B.17 before releasing any technical, engineering, or operational information related to EINSTEIN equipment, capabilities, and operations to **For Official Use Only**

the public or in connection with any requests received in accordance with the FOIA; congressional, Government Accountability Office, or Inspector General inquiries; court proceedings; or other legal process.

2. Additional Responsibilities for OMB Approved TICAPs.

- a. Provide a secured location for the installation and maintenance of any EINSTEIN equipment to be installed at the agency TICAP or other agency location;
- b. Ensure continued availability of any EINSTEIN equipment installed at the agency TICAP or other agency location;
- c. Ensure that the EINSTEIN equipment installed at the agency TICAP or other agency location is used for EINSTEIN operations only;
- d. Provide authorized CS&C personnel escorted access to Internet
 Access Provider once coordinated through TICAP and provide
 logistic support in the form of rack space, electricity, Internet connectivity,
 and any infrastructure support necessary to support communication and
 remote administration between CS&C and the EINSTEIN equipment; and
- e. Work through the technical point of contact to aid CS&C system administrators in managing the EINSTEIN equipment, oversee the maintenance performed by CS&C, and aid in these tasks when remote capability is not possible.

3. Additional Responsibilities for MTIPS Enclave Users.

- a. Ensure, in conjunction with Networx MTIPS vendor, that the is routed through the TIC portal; and
- b. Ensure the CS&C technical point of contact is notified of all changes in security policy related to the MTIPS connections that would change the characterization of network traffic.

B. Responsibilities of CS&C.

- 1. Provide at no cost to the CS&C labor, hardware, and software necessary to deploy and operate EINSTEIN equipment at TICAPs, MTIPS enclaves, and participating intrusion prevention security services ISP locations;
- 2. Designate appropriate legal, technical, and operational points of contact to coordinate with on issues related to EINSTEIN equipment, capabilities, or operations;

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- 3. Host collaborative events to bring together representatives of the various agencies protected by EINSTEIN capabilities;
- 4. Provide guidance and support on the deployment and implementation of EINSTEIN equipment and operations;
- 5. Provide technical assistance as necessary if is not otherwise able to provide network topology information in accordance with section VI.A.1.e;
- 6. Install EINSTEIN equipment at applicable TICAPs, MTIPS enclaves, and participating intrusion prevention security services ISP locations in accordance with both FISMA and National Institute of Standards and Technology standards and guidelines;
- 7. Provide, as needed and requested by , an authorization memorandum, test reports, and other procedures or information related to certification and accreditation or other applicable security policies;
- 8. Perform ongoing system administration, patching, testing, and configuration management of the EINSTEIN equipment;
- 9. Maintain and operate EINSTEIN equipment in accordance with all applicable CS&C procedures;
- 10. Protect through appropriate means any Customer Proprietary Network Information (CPNI), including agency bandwidth, Internet Protocol (IP) address blocks, and service access locations that are provided to CS&C in accordance with section VI.A.1.j and VI.A.1.k;
- 11. Encrypt all data communications from EINSTEIN equipment at TICAP or MTIPS locations to CS&C;
- 12. Conduct EINSTEIN operations, including information sharing and support for appropriate cybersecurity responsibilities of other Federal entities, as authorized by law and in a manner that protects the privacy and other legal rights of persons;
- 13. Ensure that all information collected through EINSTEIN operations is handled and secured in accordance with any specialized handling instructions provided by under section VI.A.1.q and agreed to by CS&C in an addendum to this Agreement;
- 14. Promptly comply with requests to accommodate legal or policy changes affecting the ability to lawfully implement EINSTEIN capabilities;

- 15. Provide relevant training to authorized personnel, including training to enable the analysis of net flow data collected through EINSTEIN operations and made available to by CS&C;
- 16. Maintain and provide to and other participating agencies a collection of summary and statistical reports based on EINSTEIN data on which CS&C will perform timely cross-agency analysis of cybersecurity threats, cyber incidents, and identified network anomalies;
- 17. Serve as the "agency of record" for information related to EINSTEIN equipment, capabilities, and operations and respond to any requests for such information received in accordance with the FOIA; congressional, Government Accountability Office, or Inspector General inquiries; court proceedings; or other legal process;
- 18. Coordinate with the technical and legal points of contact pursuant to section VI.A.1.r before releasing any information collected by US-CERT through EINSTEIN operations in connection with any requests received in accordance with the FOIA; congressional, Government Accountability Office, or Inspector General inquiries; court proceedings; or other legal process;
- 19. As requested, share ISP thresholds levels specified for the service for performance requirements with the agencies.
- VIII. **Authorization for In-line Traffic Inspection and Modification.** recognizes that certain EINSTEIN operations will include a range of capabilities designed to prevent specific cyber intrusions into information systems and mitigate specific cyber threats to information and information systems. Such activity which may include the interception, potential modification, use, and disclosure of traffic, as well as sending commands to information systems for the purpose of identifying such systems, is authorized by in order to protect information and information systems and provide real-time mitigation of specific cyber threats, in accordance with this Agreement.
- IX. **Government contractors.** recognizes that certain EINSTEIN operations will be undertaken by entities acting under contract to DHS. Such contractors, which will include Internet services providers, will conduct their activities in accordance with DHS requirements, which DHS shall ensure are consistent with the terms of this Agreement.
- X. **Certification.** certifies that its log-on consent banners or notices, terms-of-use policies or user agreements, computer training programs, and any other mechanisms used to notify users and obtain their consent to the terms and conditions of computer use clearly demonstrate to computer users and obtain their consent that:

- users have no expectation of privacy regarding any communications or information transiting, stored on, or traveling to or from information systems;
- the Government routinely monitors communications occurring on
 systems for any lawful government purpose including, but not limited to, monitoring
 network operations, quality control, employee misconduct investigations, law
 enforcement investigations, and counterintelligence investigations;
- at any time, the Government may for any lawful government purpose monitor, intercept, search, and seize communications or information transiting, stored on, or traveling to or from information systems;
- any communications or information transiting, stored on, or traveling to or from information systems may be disclosed or used for any lawful government purpose; and
- information systems include computers, computer networks, and all devices and storage media attached to a(n) network or to a computer on such network.

For purposes of the certification, shall ensure that references to monitoring by the Government are sufficient to address activities undertaken by the Government's contractors, including activities undertaken in accordance with Section IX.

will notify CS&C promptly of any changes to its log-on consent banners or notices, terms-of-use policies or user agreements, computer training programs, and any other mechanisms used to notify users and obtain their consent to the terms and conditions of computer use that affect the above certification. Model language for the log-on consent banner and user agreement that agencies may wish to use to meet the requirements of the above certification is attached as Appendices A and B to this Agreement.

XI. **Points of Contact.** Liaison will be maintained between the following offices:

A. Technical Matters

	Brendan Goode
Office:	DHS, CS&C
Position:	Director, Network Security Deployment and NCPS Program Manager
Phone:	703-235-2853
Email:	NCPSProgramOffice@hq.dhs.gov
Onevational Matters	

B. Operational Matters

US-CERT DHS, CS&C

Office:

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Position: US-CERT SWO
Phone: 888-282-0870
Email: swo@us-cert.gov

C. Legal Matters

Office of General Counsel

Office: DHS, Office of General Counsel

Position: National Protection and Programs

Directorate Law Division

Phone: 703-235-5222 or 703-235-5223

Email: Ogc-cyber@hq.dhs.gov

- XII. **Other Provisions.** Nothing in this Agreement is intended to conflict with current law. If a term of this Agreement is inconsistent with any applicable law, then that term shall be invalid, but the remaining terms and conditions of this Agreement shall remain in full force and effect.
- XIII. **Effective Date.** This Agreement is effective on the date of the final signature.
- XIV. **Modification.** The Parties may modify this Agreement by written agreement, signed by authorized representatives of both Parties.
- XV. **Termination.** If it becomes necessary to terminate this Agreement prior to the end of the term, the terminating Party shall notify the technical points of contact in writing at least 30 calendar days prior to the intended date of termination. and CS&C shall cooperate to reach a mutually agreeable termination date.
- XVI. **Costs.** This Agreement does not obligate any funds. Each party shall remain responsible for its own costs to perform its responsibilities under this Agreement.
- XVII. **Dispute Resolution.** The Parties will make their best efforts to amicably resolve disputes that may arise under this Agreement through discussions. If resolution cannot be reached, the Parties will solicit the views and mediation of the above referenced technical points of contact. If those views or mediation cannot be obtained, or fail to resolve the matter, the issue will be elevated through the respective signatories to this Agreement for resolution.

Approved By:

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	Department of Homeland Security
< <name>></name>	Roberta G. Stempfley
< <title>></td><td>Deputy Assistant Secretary</td></tr><tr><td rowspan=2>Date</td><td>Office of Cybersecurity & Communications</td></tr><tr><td>Date</td></tr></tbody></table></title>	

APPENDIX A

MODEL LANGUAGE FOR LOG-ON BANNERS FOR COMPUTERS

- You are accessing a U.S. Government information system, which includes (1) this computer, (2) this computer network, (3) all computers connected to this network, and (4) all devices and storage media attached to this network or to a computer on this network. This information system is provided for U.S. Government-authorized use only.
- Unauthorized or improper use of this system may result in disciplinary action, as well as civil and criminal penalties.
- By using this information system, you understand and consent to the following:
 - You have no reasonable expectation of privacy regarding any communications or information transiting, stored on, or traveling to or from this information system. At any time, the government may for any lawful government purpose monitor, intercept, search, and seize any communication or information transiting, stored on, or traveling to or from this information system.
 - o Any communications or information transiting, stored on, or traveling to or from this information system may be disclosed or used for any lawful government purpose.

[click button: "I AGREE"]

NOTE: For purposes of such banners, agencies shall ensure that references to monitoring by the government are sufficient to address activities undertaken by government contractors.

APPENDIX B

MODEL LANGUAGE FOR USER AGREEMENT

By signing this document, you understand and consent to the following when you access this agency's information systems, which includes (1) this computer, (2) this computer network, (3) all computers connected to this network, and (4) all devices (*e.g.*, BlackBerry, PDA, *etc.*) and storage media (*e.g.*, thumb drive, flash drive, *etc.*) attached to this network or to a computer on this network:

- You are accessing a U.S. Government information system that is provided for U.S. Government-authorized use only;
- Unauthorized or improper use of the information system may result in disciplinary action, as well as civil and criminal penalties;
- The Government, acting directly or through its contractors, routinely monitors
 communications occurring on this information system. You have no reasonable
 expectation of privacy regarding any communications or data transiting, stored on, or
 traveling to or from this information system. At any time, the government may for any
 lawful government purpose monitor, intercept, search, and seize any communication or
 data transiting, stored, or traveling to or from this information system;
- Any communications or data transiting, stored on, or traveling to or from this information system may be disclosed or used for any lawful government purpose.

I understand and consent.

<<Signature Block to be Inserted Later>>

APPENDIX C

MODEL LANGUAGE FOR PRIVACY POLICY

<<AGENCY NAME>> information systems may be protected by EINSTEIN cybersecurity capabilities, under the operational control of the U.S. Department of Homeland Security's United States Computer Emergency Readiness Team (US-CERT). Electronic communications with <<AGENCY NAME>> may be scanned by government-owned or contractor equipment to look for network traffic indicating known or suspected malicious cyber activity, including malicious content or communications. Electronic communications within <<AGENCY NAME>> will be collected or retained by US-CERT only if they are associated with known or suspected cyber threats. US-CERT will use the information collected through EINSTEIN to analyze the known or suspected cyber threat and help <<AGENCY NAME>> and other agencies respond and better protect their computers and networks.

For additional information about EINSTEIN capabilities, please see the EINSTEIN program-related Privacy Impact Assessments available on the DHS cybersecurity privacy website (http://www.dhs.gov/files/publications/editorial_0514.shtm#4) along with other information about the federal government's cybersecurity activities.

APPENDIX D

MODEL LANGUAGE FOR LETTER OF AGENCY

<< ON AGENCY LETTERHEAD >>

DATE: <<DATE>>

TO: <<PARTICIPATING EINSTEIN IPSS ISPs>>

To Whom it May Concern,

Please be advised that, pursuant to a Memorandum of Agreement with the Department of Homeland Security (DHS) dated <<DATE OF MOA>> (attached as Exhibit 1) (MOA), the <<AGENCY NAME>> is participating in the deployment of EINSTEIN Intrusion Prevention Security Services (IPSS) on its networks for network security purposes, to look for network traffic indicating known or suspected malicious cyber activity. <<AGENCY NAME>> hereby authorizes and requests that <<PARTICIPATING EINSTEIN IPSS ISP>> (hereinafter "<<ISP>>") fully cooperate with DHS in deploying EINSTEIN capabilities on <<AGENCY NAME>>'s networks. <<AGENCY NAME>> authorizes <<ISP>> to reroute, modify, and/or reconfigure any of <<AGENCY NAME>>'s Internet traffic handled by <<ISP>>, in accordance with the requirements of the MOA. Such <<ISP>> operations on <<AGENCY NAME>> network traffic are consistent with <<AGENCY NAME>> login banners and computer use policies and procedures.

<<AGENCY NAME>> understands that deployment of the IPSS capabilities on its network (1) may impact services provided by <<ISP>>, and (2) may require <<AGENCY NAME>> to modify service level agreements (SLA) that relate to such services occurring after <<AGENCY NAME>> Internet traffic routes through the EINSTEIN IPSS infrastructure so that no penalties or obligations accrue against the ISP for service impacts that result from application of the EINSTEIN IPSS to <<AGENCY NAME>>'s traffic. <<AGENCY NAME>> agrees to negotiate with <<ISP>> to evaluate and modify, as necessary, SLAs and other applicable provisions of the Networx, <<INSERT ADDITIONAL CONTRACTS>>, or any other contractual vehicles through which <<ISP>> provides Internet services to <<AGENCY NAME>> in light of the deployment of EINSTEIN capabilities. <<AGENCY NAME>> understands that until such time as <<ISP>> notifies DHS that such modifications have been made, as necessary, to the applicable contracts, DHS will not deploy EINSTEIN IPSS on <<AGENCY NAME>>'s networks. <<AGENCY NAME>> understands that applicable EINSTEIN service levels will be governed by a separate Service Level Agreement between DHS and <<ISP>>.

<<AGENCY NAME>> also authorizes <<ISP>> to disclose <<AGENCY NAME>> network traffic to the Office of Cybersecurity and Communications (CS&C) within DHS, and to disclose to CS&C any information relating to <<AGENCY NAME>>'s networks that is necessary to accomplish the EINSTEIN deployment described in the MOA. <<AGENCY NAME>>

recognizes that the information to be disclosed may include Customer Proprietary Network Information (CPNI) or other categories of information the disclosure of which requires customer consent. The undersigned is fully authorized to deliver such consent on behalf of << AGENCY NAME>> and hereby does so.

<<AGENCY NAME>> asks that <<ISP>> give full cooperation and compliance to all requests in the specified matters from DHS. This letter shall complement all letters of agency prior to the above date and shall remain in effect until it is specifically cancelled in writing by <<AGENCY NAME>>, with a 30 day wind-down period to cease operations.

Sincerely,

<<AGENCY NAME Chief Information Office>>

Cc: Brendan Goode

Director, Network Security Deployment and NCPS Program Manager

Office of Cybersecurity and Communications

Department of Homeland Security