



# **Government Programs and Services Available to Assist ISAOs**

**Draft Document—Request for Comment**

SWG G 6—2016 v0.2

ISAO Standards Organization  
Standards Working Group 6: Government Relations  
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May 2, 2016

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## Revision Updates

| Item | Version | Description                             | Date           |
|------|---------|---|----------------|
| 1    | 0.1     | Initial document: Products and Services | April 5, 2016  |
| 2    | 0.2     | Update: FBI program additions           | April 28, 2016 |
|      |         |   |                |

# 1 EXECUTIVE SUMMARY

2 The objective of Standards Working Group 6, Government Relations, is to iden-  
3 tify and propose considerations and government resources to ensure that Infor-  
4 mation Sharing and Analysis Organization (ISAO) voluntary standards align with  
5 existing laws, regulations, and guidance. This working group also addresses con-  
6 siderations for ISAO interaction with the intelligence community, law enforcement  
7 agencies, U.S. regulatory agencies, the Department of Homeland Security, and  
8 other government departments and agencies.

9 The purpose of this voluntary ISAO Standards Organization (SO) guide is to as-  
10 sist ISAOs, both new and existing, in identifying existing resources and services,  
11 primarily those provided by the government, that may be of use to their organiza-  
12 tion. Much of this guide is aligned to the five cybersecurity framework function ar-  
13 eas. As such, it outlines resources and services available to help ISAOs identify,  
14 protect from, detect, respond to, and recover from cyber threats and incidents.

15 This is the first complete draft of this voluntary guide. This draft is intended to be  
16 a starting point and will be updated continuously through public input and working  
17 group research.

## 18 RESOURCES AVAILABLE FOR ISAOS

19 Listed below are the resources available for ISAOs. The descriptive summaries  
20 below are in part based on the information publicly available from their respective  
21 agencies' web sites. These agency web sites are the primary source for the infor-  
22 mation found in this document. For the most current and authoritative infor-  
23 mation, refer to the respective agency website and point of contact, accessible  
24 through the ISAO Standards Organization Resource Library at [www.ISAO.org](http://www.ISAO.org).  
25 [NOTE: The Resource Library functionality is in development.]



### 26 27 DEPARTMENT OF HOMELAND SECURITY (DHS)

28 The DHS resources below are available to assist ISAOs today and are aligned to  
29 the five cybersecurity framework function areas:

- 30 • Identify
- 31 • Protect
- 32 • Detect
- 33 • Respond
- 34 • Recover.

### 35 RESOURCES TO IDENTIFY THREATS

36 Activities to identify threats are foundational for effective use of the framework.  
37 Understanding the business context, the resources that support critical functions,  
38 and the related cybersecurity risks enables an organization to focus and prioritize  
39 its efforts, consistent with its risk management strategy and business needs. Cat-  
40 egories, which will be subdivisions of each of the five function areas listed above  
41 may include asset management, business environment, governance, risk as-  
42 sessment, and risk management strategy, among others. The outcomes of these  
43 activities will be tied to programmatic needs and relevant actions.

### 44 CYBER RESILIENCE REVIEW (CRR)

45 The Cyber Resilience Review (CRR) is a no-cost, voluntary, non-technical as-  
46 sessment to evaluate an organization's operational resilience and cybersecurity  
47 practices. The CRR may be conducted as a self-assessment or as an on-site as-  
48 sessment facilitated by DHS cybersecurity professionals. The CRR assesses en-  
49 terprise practices and procedures across a range of 10 activity areas, including  
50 risk management, incident management, service continuity, and others. The as-  
51 sessment is designed to measure existing organizational resilience as well as

52 provide a gap analysis for improvement based on recognized best practices. For  
53 additional information, see <http://us-cert.gov/ccubedvp/self-service-crr>.

54 **CYBERSECURITY EVALUATION TOOL (CSET) AND ON-SITE**  
55 **CYBERSECURITY CONSULTING**

56 The Cybersecurity Evaluation Tool (CSET), a self-assessment tool, offers as-  
57 sessments of the security posture of industrial control systems. Features include  
58 mapping to control systems standards based on the sector, as well as a network  
59 architecture mapping tool. The tool can be downloaded for self-use, or organiza-  
60 tions can request a facilitated site visit, which could include basic security as-  
61 sessments, network architectural review and verification, network scanning using  
62 custom tools to identify malicious activity and indicators of compromise, and pen-  
63 etration testing. More information is available at: [http://ics-cert.us-cert.gov/as-](http://ics-cert.us-cert.gov/assessments)  
64 [sessments](http://ics-cert.us-cert.gov/assessments).

65 **INDUSTRIAL CONTROL SYSTEMS COMPUTER EMERGENCY READINESS**  
66 **TEAM (ICS-CERT) RECOMMENDED PRACTICES**

67 The Industrial Control Systems Computer Emergency Readiness Team (ICS-  
68 CERT) offers a list of recommended practices aimed at helping industry under-  
69 stand and prepare for ongoing and emerging control systems cybersecurity is-  
70 sues, vulnerabilities, and mitigation strategies. ICS-CERT works with control sys-  
71 tems manufacturers, service providers, researchers, and end users to ensure  
72 that the recommended practices are vetted by industry subject matter experts  
73 prior to publication. Recommended practices cover topics such as defense-in-  
74 depth strategies, cyber forensics, and incident response and are updated on a  
75 routine basis to account for emerging issues and practices. Access to recom-  
76 mended practices is available at: [http://ics-cert.us-cert.gov/introduction-recom-](http://ics-cert.us-cert.gov/introduction-recommended-practices)  
77 [mended-practices](http://ics-cert.us-cert.gov/introduction-recommended-practices).

78 **NATIONAL CYBER AWARENESS SYSTEM (NCAS)**

79 The National Cybersecurity and Communications Integration Center (NCCIC)  
80 produces advisories, alert and situation reports, analysis reports, current activity  
81 updates, daily summaries, indicator bulletins, periodic newsletters, recommended  
82 practices, a Weekly Analytic Synopsis Product (WASP), weekly digests, and year  
83 in review to alert partners of emerging cyber threats, vulnerabilities, and current  
84 activities. Certain products such as alerts, current activity updates, bulletins, and  
85 tips are released through the U.S. Computer Emergency Readiness Team (US-  
86 CERT) NCAS. More information on obtaining NCAS products is available at:

- 87 • <http://us-cert.gov/ncas>
- 88 • <http://us-cert.gov/mailing-lists-and-feeds>
- 89 • <http://public.govdelivery.com/accounts/USDHSUSCERT/subscriber/new>

90 **U.S. COMPUTER EMERGENCY READINESS TEAM (US-CERT) AND ICS-CERT**  
91 **ALERTS, BULLETINS, TIPS, AND TECHNICAL DOCUMENTS**

92 Alerts, bulletins, tips, and technical documents are published by ICS-CERT and  
93 US-CERT. ICS-CERT also offers an extensive bibliography of relevant standards  
94 and references. Both sets of documents and references help explain relevant  
95 control system vulnerabilities and the measures critical infrastructure owners and  
96 operators can take to mitigate them. More information is available at: [http://ics-](http://ics-cert.us-cert.gov)  
97 [cert.us-cert.gov](http://ics-cert.us-cert.gov) and <http://us-cert.gov>.

98 **CYBER SECURITY ADVISORS (CSAs)**

99 Cyber Security Advisors (CSAs) are regionally located DHS personnel who direct  
100 coordination, outreach, and regional support to protect cyber components essen-  
101 tial to the sustainability, preparedness, and protection of U.S. critical infrastruc-  
102 ture and state, local, territorial, and tribal (SLTT) governments. CSAs offer imme-  
103 diate and sustained assistance to prepare and protect SLTT and private entities.  
104 They bolster the cybersecurity preparedness, risk mitigation, and incident re-  
105 sponse capabilities of these entities and bring them into closer coordination with  
106 the federal government. CSAs represent a front-line approach and promote resili-  
107 ence of key cyber infrastructures throughout the United States and its territories.  
108 For more information about CSAs, email [cyberadvisor@hq.dhs.gov](mailto:cyberadvisor@hq.dhs.gov) (link sends e-  
109 [mail](mailto:cyberadvisor@hq.dhs.gov)).

110 **PROTECTIVE SECURITY ADVISORS (PSAs)**

111 Protective Security Advisors (PSAs) are trained subject matter experts in critical  
112 infrastructure protection and vulnerability mitigation. Regional directors are su-  
113 pervisory PSAs, responsible for the activities of eight or more PSAs and geospa-  
114 tial analysts, who ensure that all Office of Infrastructure Protection critical infra-  
115 structure protection programs and services are delivered to federal and SLTT  
116 stakeholders and private-sector owners and operators. The PSA program fo-  
117 cuses on physical site security and resiliency assessments, planning and en-  
118 gagement, incident management assistance, and vulnerability and consequence  
119 information sharing. For more information about PSAs, see: [http://dhs.gov/pro-](http://dhs.gov/protective-security-advisors)  
120 [tective-security-advisors](http://dhs.gov/protective-security-advisors).

121 **FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) EMERGENCY**  
122 **PLANNING EXERCISES**

123 The Federal Emergency Management Agency (FEMA) Private Sector Division,  
124 Office of External Affairs, introduced a series of tabletop exercises in 2010 as a  
125 tool to help private-sector organizations advance their continuity, preparedness,  
126 and resiliency. Tabletop exercises are designed to help organizations test a hy-  
127 pothetical situation, such as a natural or man-made disaster, and evaluate their  
128 ability to cooperate and work together, as well as test their readiness to respond.  
129 To access the exercises, see: [http://www.fema.gov/emergency-planning-exer-](http://www.fema.gov/emergency-planning-exercises)  
130 [cises](http://www.fema.gov/emergency-planning-exercises).



131 **RESOURCES TO PROTECT AGAINST THREATS**

132 Protecting against threats involves the ability to limit or contain the impact of a  
133 potential cybersecurity event. Examples of outcome categories within this func-  
134 tion include access control, awareness and training, data security, information  
135 protection processes and procedures, maintenance, and protective technology.

136 **ICS-CERT TRAINING**

137 ICS-CERT offers training in industrial control systems security at the overview,  
138 intermediate, and advanced levels, including web-based and instructor-led for-  
139 mats. More information on ICS-CERT training opportunities is available at:  
140 <http://ics-cert.us-cert.gov/training-available-through-ics-cert>.

141 **ICS-CERT RECOMMENDED PRACTICES**

142 ICS-CERT maintains a list of recommended practices aimed at helping industry  
143 understand and prepare for ongoing and emerging control systems cybersecurity  
144 issues, vulnerabilities, and mitigation strategies. ICS-CERT works with control  
145 systems manufacturers, service providers, researchers, and the end user com-  
146 munity to ensure that the recommended practices are vetted by industry subject  
147 matter experts prior to publication. Recommended practices cover topics such as  
148 defense-in-depth strategies, cyber forensics, and incident response, and are up-  
149 dated on a routine basis to account for emerging issues and practices. Access to  
150 recommended practices is provided through: [http://ics-cert.us-cert.gov/introduc-  
151 tion-recommended-practices](http://ics-cert.us-cert.gov/introduction-recommended-practices).

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156 practices, Weekly Analytic Synopsis Product (WASP), weekly digests, and year  
157 in review to alert partners of emerging cyber threats, vulnerabilities, and current  
158 activities. Certain products such as alerts, current activity, bulletins, and tips are  
159 released through US-CERT's NCAS. More information on obtaining NCAS prod-  
160 ucts is available at:

- 161 • <http://us-cert.gov/ncas>
- 162 • <http://us-cert.gov/ mailing-lists-and-feeds/>
- 163 • <http://public.govdelivery.com/accounts/USDHSUSCERT/subscriber/new>

164 **US-CERT AND ICS-CERT ALERTS, BULLETINS, TIPS, AND TECHNICAL**  
165 **DOCUMENTS**

166 Access to alerts, bulletins, tips, and technical documents published by ICS-CERT  
167 and US-CERT. ICS-CERT also offers an extensive bibliography of relevant  
168 standards and references. Both sets of documents and references provide a bet-  
169 ter understanding of relevant control systems vulnerabilities and suggest  
170 measures critical infrastructure owners and operators can take to address them.

171 More information on ICS-CERT and US-CERT alerts, bulletins, tips, and technical documents is available at: <http://ics-cert.us-cert.gov> and <http://us-cert.gov>.

173 **CYBER SECURITY ADVISORS (CSAs)**

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194 **CYBER INFORMATION SHARING AND COLLABORATION PROGRAM (CISCP)**

195 The Cyber Information Sharing and Collaboration Program (CISCP) is a no-cost information sharing partnership between enterprises and DHS. It creates shared situational awareness across critical infrastructure communities, enhances cybersecurity collaboration between DHS and critical infrastructure owners and operators, and leverages government and industry subject matter expertise to collaboratively respond to cybersecurity incidents. For more information about CISCP, email [ciscp\\_coordination@hq.dhs.gov](mailto:ciscp_coordination@hq.dhs.gov) ([link sends e-mail](#)) and [download an overview of CISCP](#).

203 **ENHANCED CYBERSECURITY SERVICES (ECS)**

204 Enhanced Cybersecurity Services (ECS) is a voluntary information sharing program that assists U.S.-based public and private entities as they improve the protection of their systems from unauthorized access, exploitation, or data exfiltration. DHS works with cybersecurity organizations from across the federal government to gain access to a broad range of sensitive and classified cyber threat information. It develops cyber threat indicators based on this information and shares them with qualified commercial service providers, thus enabling them to

211 better protect their customers. ECS augments, but does not replace, entities' ex-  
212 isting cybersecurity capabilities. More information is available at:  
213 <http://dhs.gov/enhanced-cybersecurity-services>.

214 **STOP.THINK.CONNECT. CAMPAIGN**

215 Launched in 2010, the Stop.Think.Connect. campaign was created to empower  
216 Americans to reduce cyber risk online by incorporating safe habits into their  
217 online routines. The campaign was conceived by a coalition of private compa-  
218 nies, non-profits, and government organizations, including DHS, through the Anti-  
219 Phishing Working Group Messaging Convention and the National Cyber Security  
220 Alliance (NCSA).

221 For more information on how to get involved, see: <http://dhs.gov/stopthinkcon->  
222 [nect](http://dhs.gov/stopthinkconnect) or email [stopthinkconnect@dhs.gov](mailto:stopthinkconnect@dhs.gov) (link sends e-mail).

223 **NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION (NICE)**

224 Various cybersecurity education and awareness initiatives fall under the umbrella  
225 of the National Initiative for Cybersecurity Education (NICE). It includes the Na-  
226 tional Initiative for Cybersecurity Careers and Studies (NICCS) portal, which pro-  
227 vides a variety of resources for awareness, training, education, and career devel-  
228 opment for cybersecurity professionals and the general public. More information  
229 is available at: <http://niccs.us-cert.gov/education/education-home>.

230 **NATIONAL INITIATIVE FOR CYBERSECURITY CAREERS AND STUDIES**  
231 **(NICCS) PORTAL**

232 The NICCS portal is a one-stop shop for cybersecurity careers and studies. It  
233 connects the public with information on cybersecurity awareness, degree pro-  
234 grams, training, careers, and talent management. More information is available  
235 at: <http://niccs.us-cert.gov>.

236 **CYBERSECURITY WORKFORCE PLANNING DIAGNOSTIC TOOL**

237 The Cybersecurity Workforce Planning Diagnostic tool, which was developed by  
238 NICE, introduces a qualitative management aid to help organizations identify the  
239 data they need to gather for effective cybersecurity workforce planning. By con-  
240 sidering implications of specific organizational characteristics around two fac-  
241 tors—risk exposure (as a function of mission cybersecurity dependence aligned  
242 to compliance standards) and risk tolerance—organizations will gain insight into  
243 what types of data they need to better plan for and manage their cybersecurity  
244 workforce. To learn more, see: <http://niccs.us-cert.gov/careers/cybersecurity->  
245 [workforce-planning-diagnostic](http://niccs.us-cert.gov/careers/cybersecurity-workforce-planning-diagnostic).

246 **NATIONAL CYBERSECURITY WORKFORCE FRAMEWORK**

247 The National Cybersecurity Workforce Framework is an online resource that  
248 classifies the typical duties and skill requirements of cybersecurity workers. It is  
249 meant to define professional requirements in cybersecurity, much as in other pro-  
250 fessions such as medicine and law.

251 The framework organizes cybersecurity into seven high-level categories, each  
252 comprising several specialty areas. Clicking on a specialty area reveals the de-  
253 tails about that area. Each specialty area detail displays the standard tasks and  
254 the knowledge, skills, and abilities needed to successfully complete those tasks.  
255 To learn more about the framework, see: [http://niccs.us-cert.gov/train-](http://niccs.us-cert.gov/training/tc/framework/overview)  
256 [ing/tc/framework/overview](http://niccs.us-cert.gov/training/tc/framework/overview).

### 257 **CYBERSECURITY SERVICE OFFERING REFERENCE AIDS**

258 DHS's National Protection and Programs Directorate (NPPD) has developed a  
259 list of freely available reports and resources pertinent to managing the acquisition  
260 of cybersecurity services. It is not intended to be exhaustive but covers a wide  
261 range of cybersecurity services, including cloud service providers, cyber incident  
262 response, cloud computing, software assurance, and industrial control systems.  
263 While most of its recommendations and reports are vendor-agnostic, some iden-  
264 tify specific service providers that have met certification criteria related to their  
265 service offerings. DHS does not endorse any particular service provider or offer-  
266 ing. Access the reference aids at: [Cybersecurity Service Offering Reference](#)  
267 [Aids](#).

### 268 **FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) EMERGENCY** 269 **PLANNING EXERCISES**

270 The FEMA Private Sector Division, Office of External Affairs, introduced a series  
271 of tabletop exercises in 2010 as a tool to help private sector organizations ad-  
272 vance their continuity, preparedness, and resiliency. Tabletop exercises are de-  
273 signed to help an organization test a hypothetical situation, such as a natural or  
274 man-made disaster, and evaluate the groups' ability to cooperate and work to-  
275 gether, as well as test their readiness to respond. To access the exercises, visit:  
276 <http://www.fema.gov/emergency-planning-exercises>.

### 277 **RESOURCES TO DETECT THREATS**

278 Detecting threats involves timely discovery of cybersecurity events. Examples of  
279 outcome categories within this function include anomalies and events, security  
280 continuous monitoring, and detection processes.

### 281 **CYBER INFORMATION SHARING AND COLLABORATION PROGRAM (CISCP)**

282 A no-cost information sharing partnership between enterprises and DHS, CISCP  
283 creates shared situational awareness across critical infrastructure communities,  
284 enhances cybersecurity collaboration between DHS and critical infrastructure  
285 owners and operators, and leverages government and industry subject matter  
286 expertise to collaboratively respond to cybersecurity incidents. For more infor-  
287 mation about CISCP, please email [ciscp\\_coordination@hq.dhs.gov](mailto:ciscp_coordination@hq.dhs.gov) ([link sends e-](#)  
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291 and private entities as they improve the protection of their systems from unau-  
292 thorized access, exploitation, or data exfiltration. DHS works with cybersecurity  
293 organizations from across the federal government to gain access to a broad  
294 range of sensitive and classified cyber threat information. DHS develops cyber  
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297 tomers. ECS augments, but does not replace, entities' existing cybersecurity ca-  
298 pabilities. More information is available at: <http://dhs.gov/enhanced-cybersecu->  
299 [rity-services](http://dhs.gov/enhanced-cybersecurity-services).

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307 gether, as well as test their readiness to respond. To access the exercises, visit:  
308 <http://www.fema.gov/emergency-planning-exercises>.

309 **RESOURCES TO RESPOND TO THREATS**

310 Responding to threats involves containing the impact of a potential cybersecurity  
311 event. Examples of outcome categories within this function include response  
312 planning, communications, analysis, mitigation, and improvements.

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319 mation about CISCP, please email [ciscp\\_coordination@hq.dhs.gov](mailto:ciscp_coordination@hq.dhs.gov) (link sends e-  
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322 CSAs are regionally located DHS personnel who direct coordination, outreach,  
323 and regional support to protect cyber components essential to the sustainability,  
324 preparedness, and protection of the Nation's critical infrastructure and SLTT gov-  
325 ernments. CSAs offer immediate and sustained assistance to prepare and pro-  
326 tect SLTT and private entities. CSAs bolster the cybersecurity preparedness, risk  
327 mitigation, and incident response capabilities of these entities and bring them into  
328 closer coordination with the Federal Government. CSAs represent a front line ap-  
329 proach and promote resilience of key cyber infrastructures throughout the U.S.

330 and its territories. For more information about CSAs, please email [cyberadvi-](mailto:cyberadvisor@hq.dhs.gov)  
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333 PSAs are trained critical infrastructure protection and vulnerability mitigation sub-  
334 ject matter experts. Regional Directors are Supervisory PSAs, responsible for the  
335 activities of eight or more PSAs and geospatial analysts, who ensure all Office of  
336 Infrastructure Protection critical infrastructure protection programs and services  
337 are delivered to Federal and SLTT stakeholders and private sector owners and  
338 operators. The PSA program focuses on physical site security and resiliency as-  
339 sessments, planning and engagement, incident management assistance, and  
340 vulnerability and consequence information sharing. For more information about  
341 PSAs, visit: <http://dhs.gov/protective-security-advisors>.

342 **ENHANCED CYBERSECURITY SERVICES (ECS)**

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344 and private entities as they improve the protection of their systems from unau-  
345 thorized access, exploitation, or data exfiltration. DHS works with cybersecurity  
346 organizations from across the federal government to gain access to a broad  
347 range of sensitive and classified cyber threat information. DHS develops cyber  
348 threat indicators based on this information and shares them with qualified Com-  
349 mercial Service Providers (CSPs), thus enabling them to better protect their cus-  
350 tomers. ECS augments, but does not replace, entities' existing cybersecurity ca-  
351 pabilities. More information is available at: [http://dhs.gov/enhanced-cybersecu-](http://dhs.gov/enhanced-cybersecurity-services)  
352 [rity-services](http://dhs.gov/enhanced-cybersecurity-services).

353 **CYBER INCIDENT RESPONSE AND ANALYSIS**

354 ICS-CERT offers incident response services to owners of critical infrastructure  
355 assets that are experiencing impacts from cyber-attacks. Services include digital  
356 media and malware analysis, identification of the source of an incident, analyzing  
357 the extent of the compromise, and developing strategies for recovery and improv-  
358 ing defenses. Incident response teams also provide concepts for improving intru-  
359 sion detection capabilities and ways to eliminate vulnerabilities and minimize  
360 losses from a cyber-attack. For more information or to request response ser-  
361 vices, email: [ics-cert@hq.dhs.gov](mailto:ics-cert@hq.dhs.gov).

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369 gether, as well as test their readiness to respond. To access the exercises, visit:  
370 <http://www.fema.gov/emergency-planning-exercises>.

371 **RESOURCES TO RECOVER FROM THREATS**

372 Recovering from threats involves timely return to normal operations to reduce the  
373 impact from a cybersecurity event. Examples of outcome categories within this  
374 function include recovery planning, improvements, and communications.

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377 The FEMA Private Sector Division, Office of External Affairs, introduced a series  
378 of tabletop exercises in 2010 as a tool to help private sector organizations ad-  
379 vance their continuity, preparedness, and resiliency. Tabletop exercises are de-  
380 signed to help an organization test a hypothetical situation, such as a natural or  
381 man-made disaster, and evaluate the groups' ability to cooperate and work to-  
382 gether, as well as test their readiness to respond. To access the exercises, visit:  
383 <http://www.fema.gov/emergency-planning-exercises>.

384 **CONTACT INFORMATION**

385 To contact the Critical Infrastructure Cyber Community (C<sup>3</sup>) Voluntary Program,  
386 email [ccubedvp@hq.dhs.gov](mailto:ccubedvp@hq.dhs.gov). To stay informed of upcoming events, new re-  
387 sources, publications, and other announcements, subscribe to program alerts  
388 at <https://public.govdelivery.com/accounts/USDHSUSCERT/subscriber/new> and  
389 see <https://www.us-cert.gov/ccubedvp>.



390  
391 **FEDERAL BUREAU OF INVESTIGATION (FBI)**  
392 **INFRAGARD**

393 InfraGard is a partnership between the Federal Bureau of Investigation (FBI) and  
394 the private sector. It is an association of persons who represent businesses, aca-  
395 demic institutions, state and local law enforcement agencies, and other partici-  
396 pants dedicated to sharing information and intelligence to prevent hostile acts  
397 against the United States. Each InfraGard Members Alliance (IMA) is geographi-  
398 cally linked with an FBI field office, providing all stakeholders immediate access  
399 to experts from law enforcement, industry, academic institutions, and other fed-  
400 eral, state, and local government agencies. By utilizing the talents and expertise  
401 of the InfraGard network, information is shared to mitigate threats to critical infra-  
402 structure and key resources. Collaboration and communication are the keys to  
403 protection. Providing timely and accurate information to those responsible for  
404 safeguarding our critical infrastructures, even at a local level, is paramount in the  
405 fight to protect the United States and its resources.

406 Today, 85 InfraGard chapters with a total of more than 35,000 members work  
407 through the field offices to ward off attacks against critical infrastructure that can  
408 come in the form of computer intrusions, physical security breaches, or other  
409 methods. These members represent state, local, and tribal law enforcement, aca-  
410 demia, other government agencies, communities, and private industry.

411 At the chapter level, members meet to discuss threats and other matters that im-  
412 pact their companies. The meetings, led by a local governing board and an FBI  
413 agent who serves as InfraGard coordinator, give everyone an opportunity to  
414 share experiences and best practices.

415 InfraGard members have access to a secure FBI communications network fea-  
416 turing an encrypted website, web mail, listservs, and message boards. The web-  
417 site plays an integral part in our information-sharing efforts: It also is used. In re-  
418 cent years the agency has opened hundreds of cases as a result of information  
419 provided by InfraGard members and has received assistance on more than 1,000  
420 others.

421 For more information see [InfraGard's public website](#) or contact your local FBI  
422 field office.

### 423 **INTERNET CRIME COMPLAINT CENTER (IC3)**

424 The Internet Crime Complaint Center provides the public with a mechanism to  
425 submit information to the FBI concerning suspected Internet-facilitated criminal  
426 activity. It also develops effective alliances with law enforcement and industry  
427 partners. Information is analyzed and disseminated for investigative and intelli-  
428 gence purposes to law enforcement and for public awareness.

429 Since 2000, the IC3 has received complaints crossing the spectrum of cyber  
430 crime matters, including online fraud in its many forms, such as intellectual prop-  
431 erty rights matters, computer intrusions (hacking), economic espionage (theft of  
432 trade secrets), online extortion, international money laundering, identity theft, and  
433 a growing list of Internet-facilitated crimes. Regardless of the label placed on  
434 cyber crimes, the potential for them to overlap with other criminal matters is sub-  
435 stantial. Therefore, the former Internet Fraud Complaint Center was renamed as  
436 the IC3 in October 2003 to better reflect the broad character of such matters hav-  
437 ing an Internet, or cyber, nexus, and to minimize the need to distinguish "Internet  
438 fraud" from other potentially overlapping cyber crimes.

439 For more information, see:

- 440 • <http://www.ic3.gov>
- 441 • <http://www.fbi.gov>
- 442 • <http://www.ic3.gov/media/IC3-Brochure.pdf>



443 **THE DOMESTIC SECURITY ALLIANCE COUNCIL (DSAC)**

444 Modeled on the U.S. Department of State’s Overseas Security Advisory Coun-  
445 cil—was created in October 2005 to strengthen information-sharing with the pri-  
446 vate sector to help prevent, detect, and investigate threats impacting American  
447 businesses. Today, DSAC enables an effective two-way flow of vetted infor-  
448 mation between the FBI and participating members, which include some of  
449 America’s most respected companies. It also gives the Bureau valuable contacts  
450 when we need assistance with our investigations. [Learn more](#)

451 **FUSION CENTERS**

452 Fusion Centers are usually set up by states or major urban areas and run by  
453 state or local authorities, often with the support of the FBI—“fuse” intelligence  
454 from participating agencies to create a more comprehensive threat picture, lo-  
455 cally and nationally. They integrate new data into existing information, evaluate it  
456 to determine its worth, analyze it for links and trends, and disseminate their find-  
457 ings to the appropriate agency for action. [Learn more](#)

458 **AFFILIATED INFORMATION SHARING ASSOCIATIONS**

- 459 • ACTRA—Arizona Cyber
- 460 • VCSP—Virginia Cyber Security Partnership

461 The [National Cyber Forensics & Training Alliance](#), located in Pittsburgh, consists  
462 of experts from industry, academia, and the FBI, who work side by side to share  
463 and analyze information on the latest and most significant cyber threats. [Learn](#)  
464 [more](#)



465  
466 **NATIONAL INSTITUTE OF STANDARDS AND**  
467 **TECHNOLOGY (NIST)**

468 **EXECUTIVE ORDER 13636: CYBERSECURITY FRAMEWORK**

469 Recognizing that the national and economic security of the United States de-  
470 pends on the reliable functioning of critical infrastructure, the President issued  
471 Executive Order (EO) 13636, [Improving Critical Infrastructure Cybersecurity](#), in  
472 February 2013. It directed NIST to work with stakeholders to develop a voluntary  
473 framework—based on existing standards, guidelines, and practices—for reducing  
474 cyber risks to critical infrastructure.

475 **FRAMEWORK FOR IMPROVING CRITICAL INFRASTRUCTURE**  
476 **CYBERSECURITY**

477 Created through collaboration between industry and government, the Framework  
478 for Improving Critical Infrastructure Cybersecurity consists of standards, guide-  
479 lines, and practices to promote the protection of critical infrastructure. The priori-  
480 tized, flexible, repeatable, and cost-effective approach of the framework helps  
481 owners and operators of critical infrastructure to manage cybersecurity-related  
482 risk.

483 The framework core and informative requirements are available as separate  
484 downloads in three formats:

- 485 • [Spreadsheet \(Excel\)](#)
- 486 • [Alternate view \(PDF\)](#)
- 487 • [Database \(FileMaker Pro\)](#).

488 A companion roadmap discusses future steps and identifies key areas of cyber-  
489 security development, alignment, and collaboration.

490 NIST welcomes informal feedback about the framework and roadmap. Organiza-  
491 tions and individuals may contribute observations, suggestions, examples of use,  
492 and lessons learned to [cyberframework@nist.gov](mailto:cyberframework@nist.gov).

493 **NIST INTERAGENCY REPORT (IR) 7621—SMALL BUSINESS**  
494 **INFORMATION SECURITY: THE FUNDAMENTALS**

495 Small businesses are a very important part of the economy and a significant part  
496 of the critical U.S. economic and cyber infrastructure.

497 Because larger businesses have been strengthening information security with  
498 significant resources, technology, people, and budgets for some years, they have  
499 become more difficult targets. As a result, hackers and cyber criminals are now  
500 focusing more attention on less secure small businesses. This Interagency Re-  
501 port (IR) helps small business managers understand how to provide basic secu-  
502 rity for their information, systems, and networks.

503 The report is available at: <http://csrc.nist.gov/publications/nistir/ir7621/nistir-7621.pdf>.

505 **NIST SPECIAL PUBLICATION 800-36: GUIDE TO SELECTING**  
506 **INFORMATION TECHNOLOGY SECURITY PRODUCTS**

507 The selection of IT security products is an integral part of the design, develop-  
508 ment, and maintenance of an infrastructure that ensures confidentiality, integrity,  
509 and availability of mission-critical information. NIST Special Publication 800-36,  
510 Guide to Selecting Information Technology (IT) Security Products, defines broad  
511 security product categories and specifies product types within those categories. It

512 provides a list of characteristics and pertinent questions an organization should  
513 ask when selecting such products.

514 The guide is available at: [http://csrc.nist.gov/publications/nistpubs/800-36/NIST-  
515 SP800-36.pdf](http://csrc.nist.gov/publications/nistpubs/800-36/NIST-SP800-36.pdf).



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## 517 **FEDERAL COMMUNICATIONS COMMISSION (FCC)** 518 **SMALL BUSINESS CYBERPLANNER 2.0**

519 Information technology and high-speed Internet service are great enablers of  
520 small business success, but with the benefits comes the need to guard against  
521 growing cyber threats. In October 2012, the FCC re-launched the [Small Biz  
522 Cyber Planner 2.0](#), an online resource to help small businesses create custom-  
523 ized cybersecurity plans. Use this tool to create and save a custom cyber secu-  
524 rity plan for your company, choosing from a menu of expert advice to address  
525 your specific business needs and concerns.

526 In addition to the Small Biz Cyber Planner 2.0 (above), the FCC publishes the  
527 Cybersecurity Tip Sheet, a quick resource featuring tips on creating a mobile de-  
528 vice action plan and on payment and credit card security. For more information  
529 and to access this resource, see: <http://www.fcc.gov/cyberforsmallbiz>.

## 530 **CYBERSECURITY PLANNING GUIDE**

531 The Cybersecurity Planning Guide is designed to meet the specific needs of your  
532 company, using the FCC's customizable Small Biz Cyber Planner tool. The tool  
533 is designed for businesses that lack the resources to hire dedicated staff to pro-  
534 tect their business, information, and customers from cyber threats. Even a busi-  
535 ness with one computer or one credit card terminal can benefit from this im-  
536 portant tool. Businesses using more sophisticated networks with dozens of com-  
537 puters should consult a cyber security expert in addition to using the cyber plan-  
538 ner. For more information and to access this resource, see: [https://transi-  
539 tion.fcc.gov/cyber/cyberplanner.pdf](https://transition.fcc.gov/cyber/cyberplanner.pdf).

## 540 **CYBERSECURITY TIP SHEET**

541 The FCC has released a [Cybersecurity Tip Sheet](#), which outlines the top 10 ways  
542 for entrepreneurs to protect their companies—and customers—from cyberattack.

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## **NATIONAL SECURITY AGENCY (NSA)**

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### **NATIONAL SECURITY CYBER ASSISTANCE PROGRAM**

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The National Security Agency (NSA)/Information Assurance Directorate (IAD) has established a National Security Cyber Assistance Program allowing commercial organizations to receive accreditation for cyber incident response services. This accreditation validates that an organization has established processes, effective tools, and knowledgeable people with the proper skills and expertise to perform cyber incident response for national security systems. The accreditation is issued only to organizations that meet the criteria set forth in the NSA/IAD Accreditation Instruction Manual.

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For more information, see the program webpage at: [https://www.nsa.gov/ia/programs/cyber\\_assistance\\_program/index.shtml](https://www.nsa.gov/ia/programs/cyber_assistance_program/index.shtml).

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Download best practices for keeping a home network secure at: [http://www.nsa.gov/ia/files/factsheets/Best\\_Practices\\_Datasheets.pdf](http://www.nsa.gov/ia/files/factsheets/Best_Practices_Datasheets.pdf).



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## **DEPARTMENT OF JUSTICE**

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### **BEST PRACTICES FOR VICTIM RESPONSE AND REPORTING OF CYBER INCIDENTS**

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Any Internet-connected organization can fall prey to a disruptive network intrusion or costly cyber-attack. A quick, effective response can prove critical to minimizing the resulting harm and expediting recovery. The best time to plan such a response is before an incident occurs.

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The Department of Justice's Cybersecurity Unit has prepared a list of best practices to assist organizations in preparing a cyber incident response plan and, more generally, in preparing to respond to a cyber incident. It reflects lessons learned by federal prosecutors while handling cyber investigations and prosecutions, including information about how cyber criminals' tactics and tradecraft can thwart recovery. It also incorporates input from private-sector companies that have managed cyber incidents. Although the document was drafted with smaller, less well-resourced organizations in mind, even larger organizations with more experience in handling cyber incidents may benefit from it.

576 The document is available at: <https://www.justice.gov/sites/default/files/criminal-cips/legacy/2015/04/30/04272015reporting-cyber-incidents-final.pdf>  
577

## 578 OTHER SOURCES

579 The resources below are available from other sources.

### 580 RESOURCES TO IDENTIFY THREATS

#### 581 NATIONAL ASSOCIATION OF CORPORATE DIRECTORS (NACD) CYBER-RISK 582 OVERSIGHT HANDBOOK

583 Assessing cyber threats in terms of a risk-reward tradeoff is especially challeng-  
584 ing for two reasons: the complexity of cyber threats has grown dramatically, and  
585 competitive pressures to deploy increasingly cost-effective business technologies  
586 often affect resource investment calculations. These two competing pressures on  
587 corporate staff and business leaders mean that conscientious and comprehen-  
588 sive oversight at the board level is essential.

589 The National Association of Corporate Directors (NACD), in conjunction with the  
590 financial services and insurance provider American International Group (AIG)  
591 and the Internet Security Alliance, has identified five steps all corporate boards  
592 should consider as they seek to enhance their oversight of cyber risks. The  
593 NACD Cyber-Risk Oversight Handbook can be found  
594 at: <http://www.nacdonline.org/cyber>.

#### 595 AN INTEL USE CASE FOR THE CYBERSECURITY FRAMEWORK IN ACTION

596 Intel completed a pilot project to test the use of the NIST Cybersecurity Frame-  
597 work. The results of the test include reusable tools and best practices; harmo-  
598 nized risk management methods, technologies, and language across the corpo-  
599 ration and its supply chain; informed discussions about risk tolerance; more fo-  
600 cused risk reduction activities; and improved visibility of the risk landscape. The  
601 use case can be found at: <http://www.intel.com/content/www/us/en/govern-ment/cybersecurity-framework-in-action-use-case-brief.html> (link is external).  
602

#### 603 CYBERCHAIN PORTAL-BASED ASSESSMENT TOOL

604 The CyberChain portal, managed by the University of Maryland Robert H. Smith  
605 School of Business Supply Chain Management Center, provides risk assessment  
606 tools, scenario-based mapping tools, anonymous information sharing, and as-  
607 sessments to calculate factors such vulnerability and risk maturity capability.  
608 Tools also enable diagnosis of IT supply chain trouble spots and areas for im-  
609 provement based on NIST guidelines. Learn more at: <https://cyber-chain.rhsmith.umd.edu/>(link is external).  
610

#### 611 CLOUD CONTROLS MATRIX

612 The Cloud Security Alliance (CSA) Cloud Controls Matrix (CCM) is designed to  
613 provide fundamental security principles to guide cloud vendors and to assist pro-  
614 spective cloud customers in assessing the overall security risk of a cloud pro-  
615 vider. The matrix offers a controls framework that explains security concepts and

616 principles aligned to tools such as the NIST Cybersecurity Framework. It  
617 strengthens existing information security control environments by emphasizing  
618 business information security control requirements, reduces and identifies con-  
619 sistent security threats and vulnerabilities in the cloud, provides standardized se-  
620 curity and operational risk management, and seeks to normalize security expect-  
621 ations, cloud taxonomy and terminology, and security measures implemented in  
622 the cloud. Learn more at: <https://cloudsecurityalliance.org/research/ccm/>.

## 623 **RESOURCES TO PROTECT AGAINST THREATS**

### 624 **NATIONAL ASSOCIATION OF CORPORATE DIRECTORS (NACD) CYBER-RISK** 625 **OVERSIGHT HANDBOOK**

626 Assessing cyber threats from a risk-reward tradeoff perspective is especially  
627 challenging in the cyber arena for two reasons: (1) the complexity of cyber  
628 threats has grown dramatically, and (2) competitive pressures to deploy increas-  
629 ingly cost-effective business technologies often affect resource investment calcu-  
630 lations. These two competing pressures on corporate staff and business leaders  
631 mean that conscientious and comprehensive oversight at the board level is es-  
632 sential. NACD, in conjunction with AIG and the Internet Security Alliance, has  
633 identified five steps all corporate boards should consider as they seek to en-  
634 hance their oversight of cyber risks; the NACD Cyber-Risk Oversight Handbook  
635 can be found here: <http://www.nacdonline.org/cyber>.

### 636 **IMPLEMENTING THE NIST CYBERSECURITY FRAMEWORK AND** 637 **SUPPLEMENTARY TOOLKIT**

638 ISACA (formerly known as the Information Systems Audit and Control Associa-  
639 tion) participated in the development of the NIST Cybersecurity Framework and  
640 helped embed key principles from the Control Objectives for Information and Re-  
641 lated Technology (COBIT) framework into the industry-led effort. As part of the  
642 knowledge, tools and guidance provided by Cybersecurity Nexus (CSX), ISACA  
643 has developed a guide for implementing the framework. Download the guide  
644 at: [http://www.isaca.org/Knowledge-Center/Research/ResearchDelivera-  
645 bles/Pages/Implementing-the-NIST-Cybersecurity-Framework.aspx](http://www.isaca.org/Knowledge-Center/Research/ResearchDeliverables/Pages/Implementing-the-NIST-Cybersecurity-Framework.aspx).

### 646 **PROCESS CONTROL SYSTEM SECURITY GUIDANCE FOR THE WATER** 647 **SECTOR**

648 The American Water Works Association (AWWA) has developed guidance to  
649 provide water utility owners and operators with a consistent and repeatable rec-  
650 ommended course of action to reduce vulnerabilities to cyber attacks as recom-  
651 mended in ANSI/AWWA G430: Security Practices for Operations and Manage-  
652 ment and Executive Order 13636. The AWWA guidance and tool represent a vol-  
653 untary, sector-specific approach for adopting the NIST Cybersecurity Framework  
654 as expressed by the Water Sector Coordinating Council. Download the guide  
655 at: [http://www.awwa.org/Portals/0/files/legreg/documents/AWWACybersecuri-  
656 tyguide.pdf](http://www.awwa.org/Portals/0/files/legreg/documents/AWWACybersecurityguide.pdf).

657 **INFORMATION SECURITY FORUM'S IMPLEMENTING NIST FRAMEWORK**  
658 **CYBERSECURITY FRAMEWORK**

659 Members of the Information Security Forum can access a guide to help them use  
660 the NIST Cybersecurity Framework. Find out more at: [https://www.securityfo-](https://www.securityforum.org/research/publicdownloadnistcybersecurity/)  
661 [rum.org/research/publicdownloadnistcybersecurity/](https://www.securityforum.org/research/publicdownloadnistcybersecurity/).

662 **CYBERSECURITY 101: A RESOURCE GUIDE FOR BANK EXECUTIVES**

663 The Conference of State Bank Supervisors has published Cybersecurity 101: A  
664 Resource Guide for Bank Executives, a non-technical resource on cybersecurity  
665 that community bank chief executive officers, senior executives, and board mem-  
666 bers can use to help mitigate cybersecurity threats at their banks. The guide puts  
667 into one place industry-recognized standards and best practices for cybersecurity  
668 currently used within the financial services industry. Learn more and download  
669 the guide at: [http://www.csbs.org/news/press-releases/pr2014/Pages/pr-](http://www.csbs.org/news/press-releases/pr2014/Pages/pr-121714.aspx)  
670 [121714.aspx](http://www.csbs.org/news/press-releases/pr2014/Pages/pr-121714.aspx).

671 **SMALL FIRMS CYBERSECURITY GUIDANCE: HOW SMALL FIRMS CAN**  
672 **BETTER PROTECT THEIR BUSINESS**

673 The Securities Industry and Financial Markets Association has developed a  
674 Small Firms Cybersecurity Guidance to help small firms to increase their security  
675 and ensure the protection of their customers. The guide builds upon the NIST  
676 Cybersecurity Framework. Firms can apply the best practices in this guide in a  
677 risk-based, threat-informed approach based on the resources available and in  
678 support of their firm's overall business model. Learn more and download the  
679 guide at: [http://www.sifma.org/issues/operations-and-technology/cybersecu-](http://www.sifma.org/issues/operations-and-technology/cybersecurity/guidance-for-small-firms/)  
680 [rity/guidance-for-small-firms/](http://www.sifma.org/issues/operations-and-technology/cybersecurity/guidance-for-small-firms/).

681 **NIST CYBERSECURITY FRAMEWORK EXPLAINED**

682 IT security provider Rapid7 has developed a video that discusses and gives a  
683 brief overview of the NIST Cybersecurity Framework. Watch the video  
684 at: [http://www.rapid7.com/resources/videos/nist-cybersecurity-framework-ex-](http://www.rapid7.com/resources/videos/nist-cybersecurity-framework-explained.jsp)  
685 [plained.jsp \(link is external\)](http://www.rapid7.com/resources/videos/nist-cybersecurity-framework-explained.jsp).

686 **START WITH SECURITY: A GUIDE FOR BUSINESS**

687 Start with Security: A Guide for Business, from the Federal Trade Commission  
688 (FTC), offers 10 practical lessons businesses can learn from the FTC's 50+ data  
689 security settlements. Lessons include suggestions like "Start with security," "Con-  
690 trol access to data sensibly," and "Require secure passwords," each complete  
691 with detailed tips and explanations. The guide also links to online tutorials to help  
692 train employees, as well as publications to address particular data security chal-  
693 lenges. To download the guide or order free copies, see: [https://www.ftc.gov/tips-](https://www.ftc.gov/tips-advice/business-center/guidance/start-security-guide-business)  
694 [advice/business-center/guidance/start-security-guide-business](https://www.ftc.gov/tips-advice/business-center/guidance/start-security-guide-business).

695 **RESOURCES TO DETECT THREATS**

696 **NATIONAL ASSOCIATION OF CORPORATE DIRECTORS (NACD) CYBER-RISK**  
697 **OVERSIGHT HANDBOOK**

698 Assessing cyber threats from a risk-reward tradeoff perspective is especially  
699 challenging in the cyber arena for two reasons: (1) the complexity of cyber  
700 threats has grown dramatically, and (2) competitive pressures to deploy increas-  
701 ingly cost-effective business technologies often affect resource investment calcu-  
702 lations. These two competing pressures on corporate staff and business leaders  
703 mean that conscientious and comprehensive oversight at the board level is es-  
704 sential. NACD, in conjunction with AIG and the Internet Security Alliance, has  
705 identified five steps all corporate boards should consider as they seek to en-  
706 hance their oversight of cyber risks; the NACD Cyber-Risk Oversight Handbook  
707 can be found here: <http://www.nacdonline.org/cyber>.

708 **RESOURCES TO RESPOND**

709 The Respond Function supports the ability to contain the impact of a potential cy-  
710 bersecurity event. Examples of outcome Categories within this Function include:  
711 Response Planning; Communications; Analysis; Mitigation; and Improvements.