

---

## 2 Impact Evaluation Criteria Worksheet

**Phase 1**  
**Process S1**  
**Activity S1.1**

<b>Step 1</b>	Define a qualitative set of measures (high, medium, low) against which you will evaluate a risk's effect on your organization's mission and business objectives.
---------------	--

<b>Step 1</b>	
<b>Reputation/Customer Confidence</b>	
<b>Impact Type</b>	<b>Low Impact</b>
<i>Reputation</i>	Reputation is minimally affected; little or no effort or expense is required to recover.
<i>Customer Loss</i>	Less than <u>10</u> % reduction in customers due to loss of confidence
<i>Other:</i>	
<i>Other:</i>	

Impact Evaluation Criteria Worksheet

<b>Reputation/Customer Confidence</b>	
<b>Medium Impact</b>	<b>High Impact</b>
Reputation is damaged, and some effort and expense is required to recover.	Reputation is irrevocably destroyed or damaged.
<u>10</u> to <u>20</u> % reduction in customers due to loss of confidence	More than <u>20</u> % reduction in customers due to loss of confidence

<b>Step 1</b>	
<b>Financial</b>	
<b>Impact Type</b>	<b>Low Impact</b>
<i>Operating Costs</i>	Increase of less than <u>5</u> % in yearly operating costs
<i>Revenue Loss</i>	Less than <u>5</u> % yearly revenue loss
<i>One-Time Financial Loss</i>	One-time financial cost of less than \$ <u>10,000</u>
<i>Other:</i>	

Impact Evaluation Criteria Worksheet

		<b>Financial</b>
<b>Medium Impact</b>	<b>High Impact</b>	
Yearly operating costs increase by <u>5</u> to <u>10</u> %.	Yearly operating costs increase by more than <u>10</u> %.	
<u>5</u> to <u>10</u> % yearly revenue loss	Greater than <u>10</u> % yearly revenue loss	
One-time financial cost of \$ <u>10,000</u> to \$ <u>15,000</u>	One-time financial cost greater than \$ <u>15,000</u>	

Step 1	
Productivity	
Impact Type	Low Impact
<i>Staff Hours</i>	Staff work hours are increased by less than <u>5</u> % for <u>5</u> to <u>10</u> day(s).
<i>Other:</i>	
<i>Other:</i>	
<i>Other:</i>	

Impact Evaluation Criteria Worksheet

<b>Productivity</b>	
<b>Medium Impact</b>	<b>High Impact</b>
Staff work hours are increased between <u>5</u> % and <u>10</u> % for <u>10</u> to <u>15</u> day(s).	Staff work hours are increased by greater than <u>20</u> % for <u>20</u> to <u>40</u> day(s).

<b>Step 1</b>	
<b>Safety/Health</b>	
<b>Impact Type</b>	<b>Low Impact</b>
<i>Life</i>	No loss or significant threat to customers' or staff members' lives
<i>Health</i>	Minimal, immediately treatable degradation in customers' or staff members' health with recovery within four days
<i>Safety</i>	Safety questioned
<i>Other:</i>	



Impact Evaluation Criteria Worksheet

		Safety/Health
Medium Impact	High Impact	
Customers' or staff members' lives are threatened, but they will recover after receiving medical treatment.	Loss of customers' or staff members' lives	
Temporary or recoverable impairment of customers' or staff members' health	Permanent impairment of significant aspects of customers' or staff members' health	
Safety affected	Safety violated	

<b>Step 1</b>	
<b>Fines/Legal Penalties</b>	
<b>Impact Type</b>	<b>Low Impact</b>
<i>Fines</i>	Fines less than \$ <u>10,000</u> are levied.
<i>Lawsuits</i>	Non-frivolous lawsuit or lawsuits less than \$ <u>20,000</u> are filed against the organization, or frivolous lawsuit(s) are filed against the organization.
<i>Investigations</i>	No queries from government or other investigative organizations
<i>Other:</i>	

Impact Evaluation Criteria Worksheet

<b>Fines/Legal Penalties</b>	
<b>Medium Impact</b>	<b>High Impact</b>
Fines between \$ <u>10,000</u> and \$ <u>20,000</u> are levied.	Fines greater than \$ <u>50,000</u> are levied.
Non-frivolous lawsuit or lawsuits between \$ <u>20,000</u> and \$ <u>30,000</u> are filed against the organization.	Non-frivolous lawsuit or lawsuits greater than \$ <u>100,000</u> are filed against the organization.
Government or other investigative organization requests information or records (low-profile).	Government or other investigative organization initiates a high-profile, in-depth investigation into organizational practices.

Step 1	
Other	
Impact Type	Low Impact
<i>A:</i> Reputation/Customer confidence	
<i>B:</i> Supplier Confidence	
<i>C:</i> Financial/Legal	
<i>D:</i> Productivity	

Impact Evaluation Criteria Worksheet

		Other
Medium Impact	High Impact	

OCTAVE-S V1.0

---

## 3 Asset Identification Worksheet

**Phase 1**  
**Process S1**  
**Activity S1.2**

**Step 2**

Identify information-related assets in your organization (information, systems, applications, people).

<b>Step 2</b>	
<b>Information, Systems, and Applications</b>	
<b>System</b>	<b>Information</b>
<i>What systems do people in your organization need to perform their jobs?</i>	<i>What information do people in your organization need to perform their jobs?</i>
Store Manager -- Storefront computer	Transaction software use and log  Customer contact
Store Associate -- Storefront computer	Transaction software use  Customer contact
Warehouse Mgr -- Warehouse computer	Excel, supplier contact
Owner -- Storefront computer, warehouse computer	Supplier Contact Transaction software Customer contact Excel program



<b>Information, Systems, and Applications</b>	
<b>Applications and Services</b>	<b>Other Assets</b>
<i>What applications and services do people in your organization need to perform their jobs?</i>	<i>What other assets are closely related to these assets?</i>
transaction software	wifi router, storefront computer
warehouse packing sched excel log	wifi router, warehouse computer
supply delivery	supplier contact
supply payment	supplier contact
order fulfillment	customer contact

Step 2	
Information, Systems, and Applications (cont.)	
System	Information
<i>What systems do people in your organization need to perform their jobs?</i>	<i>What information do people in your organization need to perform their jobs?</i>
excel	warehouse supply supplier info
transaction software	storefront computer customer transaction

<b>Information, Systems, and Applications (cont.)</b>	
<b>Applications and Services</b>	<b>Other Assets</b>
<i>What applications and services do people in your organization need to perform their jobs?</i>	<i>What other assets are closely related to these assets?</i>

<b>Step 2</b>	
<b>People</b>	
<b>People</b>	<b>Skills and Knowledge</b>
<i>Which people have a special skill or knowledge that is vital to your organization and would be difficult to replace?</i>	<i>What are their special skills or knowledge?</i>
Warehouser mgr	supplier delivery packing schedule warehouse inventory
Storefront mgr	Customer preferences Online orders/customers Store inventory
Owner	Employee schedule Employee payment Supplier payment Supplier contracts

		People
Related Systems	Related Assets	
<i>Which systems do these people use?</i>	<i>Which other assets do these people use (i.e., information, services, and applications)?</i>	
Warehouse mgr	warehouse computer	
Storefront mgr	storefront computer	
owner	storefront computer warehouse computer personal computer	

<b>Step 2</b>	
<b>People (cont.)</b>	
<b>People</b>	<b>Skills and Knowledge</b>
<i>Which people have a special skill or knowledge that is vital to your organization and would be difficult to replace?</i>	<i>What are their special skills or knowledge?</i>

<b>People (cont.)</b>	
<b>Related Systems</b>	<b>Related Assets</b>
<i>Which systems do these people use?</i>	<i>Which other assets do these people use (i.e., information, services, and applications)?</i>

OCTAVE-S V1.0



---

## 4 Security Practices Worksheet

Phase 1  
Process S1  
Activity S1.3

<b>Step 3a</b>	Determine to what extent each practice in the survey is used by the organization.
<b>Step 3b</b>	As you evaluate each security practice area using the survey from Step 3a, document detailed examples of <ul style="list-style-type: none"><li>• what your organization is currently doing well in this area (security practices)</li><li>• what your organization is currently <i>not</i> doing well in this area (organizational vulnerabilities)</li></ul>
<b>Step 4</b>	After completing Steps 3a and 3b, assign a stoplight status (red, green, yellow) to each security practice area. The stoplight status should reflect how well you believe your organization is performing in each area.

**1. Security Awareness and Training**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
Staff members understand their security roles and responsibilities. This is documented and verified.	Very Much   Somewhat <b>Not At All</b> Don't Know
There is adequate in-house expertise for all supported services, mechanisms, and technologies (e.g., logging, monitoring, or encryption), including their secure operation. This is documented and verified.	Very Much   Somewhat <b>Not At All</b> Don't Know
Security awareness, training, and periodic reminders are provided for all personnel. Staff understanding is documented and conformance is periodically verified.	Very Much   Somewhat <b>Not At All</b> Don't Know
<p>Staff members follow good security practice, such as</p> <ul style="list-style-type: none"> <li>• securing information for which they are responsible</li> <li>• not divulging sensitive information to others (resistance to social engineering)</li> <li>• having adequate ability to use information technology hardware and software</li> <li>• using good password practices</li> <li>• understanding and following security policies and regulations</li> <li>• recognizing and reporting incidents</li> </ul>	Very Much   Somewhat <b>Not At All</b> Don't Know

**1. Security Awareness and Training**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>What is your organization currently <i>not</i> doing well in this area?</b></p>
<p>Employees have personal IDs</p> <p>Transaction software is password protected</p> <p>Owner has access to all administrative duties</p> <p>Associates do not have access to employee information</p> <p>Managers do not have lateral access to employee information</p> <p>Not currently open to web application attacks</p>	<p>Only one wifi channel for personal and work devices on router</p> <p>No network defense</p> <p>No known storefront security</p> <p>No access controls on storefront/warehouse computers</p> <p>No security modification to OS/regular patch updates</p>
	<p><b>How effectively is your organization implementing the practices in this area?</b></p> <p><input type="checkbox"/> Red</p> <p><input checked="" type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>

**2. Security Strategy**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
The organization's business strategies routinely incorporate security considerations.	Very Much   Somewhat <b>Not At All</b> Don't Know
Security strategies and policies take into consideration the organization's business strategies and goals.	Very Much   Somewhat <b>Not At All</b> Don't Know
Security strategies, goals, and objectives are documented and are routinely reviewed, updated, and communicated to the organization.	Very Much   Somewhat <b>Not At All</b> Don't Know

**2. Security Strategy**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>How effectively is your organization implementing the practices in this area?</b></p>
	<p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>
<p><b>What is your organization currently <i>not</i> doing well in this area?</b></p>	<p>Does not currently have a documented security plan</p>

**3. Security Management**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?			
Management allocates sufficient funds and resources to information security activities.	Very Much	Somewhat	Not At All	Don't Know
Security roles and responsibilities are defined for all staff in the organization.	Very Much	Somewhat	Not At All	Don't Know
All staff at all levels of responsibility implement their assigned roles and responsibility for information security.	Very Much	Somewhat	Not At All	Don't Know
There are documented procedures for authorizing and overseeing all staff (including personnel from third-party organizations) who work with sensitive information or who work in locations where the information resides.	Very Much	Somewhat	Not At All	Don't Know
The organization's hiring and termination practices for staff take information security issues into account.	Very Much	Somewhat	Not At All	Don't Know
The organization manages information security risks, including <ul style="list-style-type: none"> <li>• assessing risks to information security</li> <li>• taking steps to mitigate information security risks</li> </ul>	Very Much	Somewhat	Not At All	Don't Know
Management receives and acts upon routine reports summarizing security-related information (e.g., audits, logs, risk and vulnerability assessments).	Very Much	Somewhat	Not At All	Don't Know

**3. Security Management**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>What is your organization currently <i>not</i> doing well in this area?</b></p>
	<p>No formal security management plan in place</p>
	<p><b>How effectively is your organization implementing the practices in this area?</b></p> <p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>

**4. Security Policies and Regulations**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
The organization has a comprehensive set of documented, current policies that are periodically reviewed and updated.	Very Much   Somewhat <b>Not At All</b> Don't Know
There is a documented process for management of security policies, including <ul style="list-style-type: none"> <li>• creation</li> <li>• administration (including periodic reviews and updates)</li> <li>• communication</li> </ul>	Very Much   Somewhat <b>Not At All</b> Don't Know
The organization has a documented process for evaluating and ensuring compliance with information security policies, applicable laws and regulations, and insurance requirements.	Very Much   Somewhat <b>Not At All</b> Don't Know
The organization uniformly enforces its security policies.	Very Much <b>Somewhat</b> Not At All   Don't Know



**4. Security Policies and Regulations**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>What is your organization currently <i>not</i> doing well in this area?</b></p>
<p>Employees appear to follow all current rules concerning maintaining a username and password</p>	<p>Employees can access wifi through their personal devices</p> <p>Employees have not been trained in relevant security behaviours</p> <p>No known documentation detailing security plan/management</p>
	<p><b>How effectively is your organization implementing the practices in this area?</b></p> <p><input type="checkbox"/> Red</p> <p><input checked="" type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>

**5. Collaborative Security Management**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
<p>The organization has policies and procedures for protecting information when working with external organizations (e.g., third parties, collaborators, subcontractors, or partners), including</p> <ul style="list-style-type: none"> <li>• protecting information belonging to other organizations</li> <li>• understanding the security policies and procedures of external organizations</li> <li>• ending access to information by terminated external personnel</li> </ul>	<p>Very Much <input checked="" type="radio"/> Somewhat <input type="radio"/> Not At All <input type="radio"/> Don't Know <input type="radio"/></p>
<p>The organization documents information protection requirements and explicitly communicates them to all appropriate third parties.</p>	<p>Very Much <input type="radio"/> Somewhat <input type="radio"/> <input checked="" type="radio"/> Not At All <input type="radio"/> Don't Know <input type="radio"/></p>
<p>The organization has formal mechanisms for verifying that all third-party organizations, outsourced security services, mechanisms, and technologies meet its needs and requirements.</p>	<p>Very Much <input type="radio"/> Somewhat <input type="radio"/> <input checked="" type="radio"/> Not At All <input type="radio"/> Don't Know <input type="radio"/></p>
<p>The organization has policies and procedures for collaborating with all third-party organizations that</p> <ul style="list-style-type: none"> <li>• provide security awareness and training services</li> <li>• develop security policies for the organization</li> <li>• develop contingency plans for the organization</li> </ul>	<p>Very Much <input type="radio"/> Somewhat <input type="radio"/> <input checked="" type="radio"/> Not At All <input type="radio"/> Don't Know <input type="radio"/></p>

**5. Collaborative Security Management**

<b>Step 3b</b>	<b>Step 3b</b>	<b>Step 4</b>
What is your organization currently doing well in this area?	What is your organization currently <i>not</i> doing well in this area?	How effectively is your organization implementing the practices in this area?
<p>Warehouse manager does not share private information about suppliers</p> <p>Owner does not share supplier payment information</p>	<p>No formalized policy for third party information security</p> <p>Computer is not up to date, contains sensitive information</p> <p>Third party software is not vetted for open-source code flaws / no indication software is patched regularly</p>	<p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>

**6. Contingency Planning/Disaster Recovery**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
An analysis of operations, applications, and data criticality has been performed.	Very Much   Somewhat <b>Not At All</b> Don't Know
The organization has documented, reviewed, and tested <ul style="list-style-type: none"> <li>• contingency plan(s) for responding to emergencies</li> <li>• disaster recovery plan(s)</li> <li>• business continuity or emergency operation plans</li> </ul>	Very Much   Somewhat <b>Not At All</b> Don't Know
The contingency, disaster recovery, and business continuity plans consider physical and electronic access requirements and controls.	Very Much   Somewhat <b>Not At All</b> Don't Know
All staff are <ul style="list-style-type: none"> <li>• aware of the contingency, disaster recovery, and business continuity plans</li> <li>• understand and are able to carry out their responsibilities</li> </ul>	Very Much   Somewhat <b>Not At All</b> Don't Know

**6. Contingency Planning/Disaster Recovery**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>How effectively is your organization implementing the practices in this area?</b></p>
	<p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>
<p><b>What is your organization currently <i>not</i> doing well in this area?</b></p>	<p>No current documented contingency plan in place</p>

**7. Physical Access Control**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
<p><i>If staff from your organization is responsible for this area:</i></p> <p>Facility security plans and procedures for safeguarding the premises, buildings, and any restricted areas are documented and tested.</p>	<p>Very Much   Somewhat   <b>Not At All</b>   Don't Know</p>
<p>There are documented policies and procedures for managing visitors.</p>	<p><b>Very Much</b>   Somewhat   Not At All   Don't Know</p>
<p>There are documented policies and procedures for controlling physical access to work areas and hardware (computers, communication devices, etc.) and software media.</p>	<p>Very Much   <b>Somewhat</b>   Not At All   Don't Know</p>
<p>Workstations and other components that allow access to sensitive information are physically safeguarded to prevent unauthorized access.</p>	<p>Very Much   <b>Somewhat</b>   Not At All   Don't Know</p>
<p><i>If staff from a third party is responsible for this area:</i></p> <p>The organization's requirements for physical access control are formally communicated to all contractors and service providers that control physical access to the building and premises, work areas, IT hardware, and software media.</p>	<p>Very Much   Somewhat   Not At All   Don't Know</p>
<p>The organization formally verifies that contractors and service providers have met the requirements for physical access control.</p>	<p>Very Much   Somewhat   Not At All   Don't Know</p>

**7. Physical Access Control**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>What is your organization currently <i>not</i> doing well in this area?</b></p>
<p>Customers are not allowed in warehouse</p> <p>Employees follow code of behaviour towards customers</p>	<p>If customer snuck into warehouse, devices are unprotected</p> <p>Storefront computer may be viewed -- accidental disclosure of information</p>
	<p><b>How effectively is your organization implementing the practices in this area?</b></p> <p><input type="checkbox"/> Red</p> <p><input checked="" type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>

**8. Monitoring and Auditing Physical Security**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
<p><i>If staff from your organization is responsible for this area:</i></p> <p>Maintenance records are kept to document the repairs and modifications of a facility’s physical components.</p>	<p>Very Much   Somewhat   <b>Not At All</b>   Don’t Know</p>
<p>An individual’s or group’s actions, with respect to all physically controlled media, can be accounted for.</p>	<p>Very Much   Somewhat   <b>Not At All</b>   Don’t Know</p>
<p>Audit and monitoring records are routinely examined for anomalies, and corrective action is taken as needed.</p>	<p>Very Much   Somewhat   <b>Not At All</b>   Don’t Know</p>
<p><i>If staff from a third party is responsible for this area:</i></p> <p>The organization’s requirements for monitoring physical security are formally communicated to all contractors and service providers that monitor physical access to the building and premises, work areas, IT hardware, and software media.</p>	<p>Very Much   Somewhat   Not At All   Don’t Know</p>
<p>The organization formally verifies that contractors and service providers have met the requirements for monitoring physical security.</p>	<p>Very Much   Somewhat   Not At All   Don’t Know</p>



**8. Monitoring and Auditing Physical Security**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>How effectively is your organization implementing the practices in this area?</b></p>
	<p>employees can access personal devices through wifi router</p> <p>No documented maintenance records in warehouse or storefront</p> <p>No documented audit/monitoring records for warehouse or storefront</p>
	<p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>

**9. System and Network Management**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?			
<i>If staff from your organization is responsible for this area:</i>				
There are documented and tested security plan(s) for safeguarding the systems and networks.	Very Much	Somewhat	Not At All	Don't Know
Sensitive information is protected by secure storage (e.g., backups stored off site, discard process for sensitive information).	Very Much	Somewhat	Not At All	Don't Know
The integrity of installed software is regularly verified.	Very Much	Somewhat	Not At All	Don't Know
All systems are up to date with respect to revisions, patches, and recommendations in security advisories.	Very Much	Somewhat	Not At All	Don't Know
There is a documented and tested data backup plan for backups of both software and data. All staff understand their responsibilities under the backup plans.	Very Much	Somewhat	Not At All	Don't Know
Changes to IT hardware and software are planned, controlled, and documented.	Very Much	Somewhat	Not At All	Don't Know
IT staff members follow procedures when issuing, changing, and terminating users' passwords, accounts, and privileges. <ul style="list-style-type: none"> <li>• Unique user identification is required for all information system users, including third-party users.</li> <li>• Default accounts and default passwords have been removed from systems.</li> </ul>	Very Much	Somewhat	Not At All	Don't Know
Only necessary services are running on systems – all unnecessary services have been removed.	Very Much	Somewhat	Not At All	Don't Know
Tools and mechanisms for secure system and network administration are used, and are routinely reviewed and updated or replaced.	Very Much	Somewhat	Not At All	Don't Know
<i>If staff from a third party is responsible for this area:</i>				
The organization's security-related system and network management requirements are formally communicated to all contractors and service providers that maintain systems and networks.	Very Much	Somewhat	Not At All	Don't Know
The organization formally verifies that contractors and service providers have met the requirements for security-related system and network management.	Very Much	Somewhat	Not At All	Don't Know

**9. System and Network Management**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>What is your organization currently <i>not</i> doing well in this area?</b></p>
<p>Employees should have a unique username and password to use transaction software</p>	<p>warehouse computer is out of date</p> <p>No implemented access controls</p> <p>Employees can access wifi with personal devices</p> <p>Network is not protected and not sectioned to prevent access elevation</p>
	<p><b>How effectively is your organization implementing the practices in this area?</b></p> <p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>

**10. Monitoring and Auditing IT Security**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
<p><i>If staff from your organization is responsible for this area:</i></p> <p>System and network monitoring and auditing tools are routinely used by the organization. Unusual activity is dealt with according to the appropriate policy or procedure.</p>	<p>Very Much    Somewhat    <b>Not At All</b>    Don't Know</p>
<p>Firewall and other security components are periodically audited for compliance with policy.</p>	<p>Very Much    Somewhat    <b>Not At All</b>    Don't Know</p>
<p><i>If staff from a third party is responsible for this area:</i></p> <p>The organization's requirements for monitoring information technology security are formally communicated to all contractors and service providers that monitor systems and networks.</p>	<p>Very Much    Somewhat    Not At All    Don't Know</p>
<p>The organization formally verifies that contractors and service providers have met the requirements for monitoring information technology security.</p>	<p>Very Much    Somewhat    Not At All    Don't Know</p>

**10. Monitoring and Auditing IT Security**

<b>Step 3b</b>	<b>Step 3b</b>	<b>Step 4</b>
What is your organization currently doing well in this area?	What is your organization currently <i>not</i> doing well in this area?	How effectively is your organization implementing the practices in this area?
	<p>No reported network protections, i.e. firewall, proxy, VPN</p> <p>No record of auditing tools being used on existing systems</p>	<p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>

**11. Authentication and Authorization**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
<p><i>If staff from your organization is responsible for this area:</i></p> <p>Appropriate access controls and user authentication (e.g., file permissions, network configuration) consistent with policy are used to restrict user access to information, sensitive systems, specific applications and services, and network connections.</p>	<p>Very Much   Somewhat   <b>Not At All</b>   Don't Know</p>
<p>There are documented policies and procedures to establish and terminate the right of access to information for both individuals and groups.</p>	<p>Very Much   Somewhat   <b>Not At All</b>   Don't Know</p>
<p>Methods or mechanisms are provided to ensure that sensitive information has not been accessed, altered, or destroyed in an unauthorized manner. Methods or mechanisms are periodically reviewed and verified.</p>	<p>Very Much   Somewhat   <b>Not At All</b>   Don't Know</p>
<p><i>If staff from a third party is responsible for this area:</i></p> <p>The organization's requirements for controlling access to systems and information are formally communicated to all contractors and service providers that provide authentication and authorization services.</p>	<p>Very Much   Somewhat   Not At All   Don't Know</p>
<p>The organization formally verifies that contractors and service providers have met the requirements for authentication and authorization.</p>	<p>Very Much   Somewhat   Not At All   Don't Know</p>

**11. Authentication and Authorization**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>How effectively is your organization implementing the practices in this area?</b></p>
	<p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>
	<p>Warehouse computer is a previously deactivated device. It could have sensitive information</p> <p>No recorded polices or procedures to implement access controls system-wide</p>

**12. Vulnerability Management**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
<p><i>If staff from your organization is responsible for this area:</i></p> <p>There is a documented set of procedures for managing vulnerabilities, including</p> <ul style="list-style-type: none"> <li>• selecting vulnerability evaluation tools, checklists, and scripts</li> <li>• keeping up to date with known vulnerability types and attack methods</li> <li>• reviewing sources of information on vulnerability announcements, security alerts, and notices</li> <li>• identifying infrastructure components to be evaluated</li> <li>• scheduling of vulnerability evaluations</li> <li>• interpreting and responding to the evaluation results</li> <li>• maintaining secure storage and disposition of vulnerability data</li> </ul>	<p>Very Much    Somewhat    <b>Not At All</b>    Don't Know</p>
<p>Vulnerability management procedures are followed and are periodically reviewed and updated.</p>	<p>Very Much    Somewhat    <b>Not At All</b>    Don't Know</p>
<p>Technology vulnerability assessments are performed on a periodic basis, and vulnerabilities are addressed when they are identified.</p>	<p>Very Much    Somewhat    <b>Not At All</b>    Don't Know</p>
<p><i>If staff from a third party is responsible for this area:</i></p>	
<p>The organization's vulnerability management requirements are formally communicated to all contractors and service providers that manage technology vulnerabilities.</p>	<p>Very Much    Somewhat    Not At All    Don't Know</p>
<p>The organization formally verifies that contractors and service providers have met the requirements for vulnerability management.</p>	<p>Very Much    Somewhat    Not At All    Don't Know</p>



**12. Vulnerability Management**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>How effectively is your organization implementing the practices in this area?</b></p>
	<p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>
<p><b>What is your organization currently <i>not</i> doing well in this area?</b></p>	<p>No documented vulnerability testing requirements</p> <p>No documented vulnerability mitigation plan</p>

**13. Encryption**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
<p><i>If staff from your organization is responsible for this area:</i></p> <p>Appropriate security controls are used to protect sensitive information while in storage and during transmission (e.g., data encryption, public key infrastructure, virtual private network technology).</p>	<p>Very Much   Somewhat   <b>Not At All</b>   Don't Know</p>
<p>Encrypted protocols are used when remotely managing systems, routers, and firewalls.</p>	<p>Very Much   Somewhat   <b>Not At All</b>   Don't Know</p>
<p><i>If staff from a third party is responsible for this area:</i></p> <p>The organization's requirements for protecting sensitive information are formally communicated to all contractors and service providers that provide encryption technologies.</p>	<p>Very Much   Somewhat   Not At All   Don't Know</p>
<p>The organization formally verifies that contractors and service providers have met the requirements for implementing encryption technologies.</p>	<p>Very Much   Somewhat   Not At All   Don't Know</p>

**13. Encryption**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>How effectively is your organization implementing the practices in this area?</b></p>
	<p>No evidence of advanced security controls.</p> <p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>

**14. Security Architecture and Design**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
<p><i>If staff from your organization is responsible for this area:</i></p> <p>System architecture and design for new and revised systems include considerations for</p> <ul style="list-style-type: none"> <li>• security strategies, policies, and procedures</li> <li>• history of security compromises</li> <li>• results of security risk assessments</li> </ul>	<p>Very Much   Somewhat   <b>Not At All</b>   Don't Know</p>
<p>The organization has up-to-date diagrams that show the enterprise-wide security architecture and network topology.</p>	<p>Very Much   Somewhat   <b>Not At All</b>   Don't Know</p>
<p><i>If staff from a third party is responsible for this area:</i></p> <p>The organization's security-related requirements are formally communicated to all contractors and service providers that design systems and networks.</p>	<p>Very Much   Somewhat   Not At All   Don't Know</p>
<p>The organization formally verifies that contractors and service providers have met the requirements for security architecture and design.</p>	<p>Very Much   Somewhat   Not At All   Don't Know</p>

**14. Security Architecture and Design**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>What is your organization currently <i>not</i> doing well in this area?</b></p>
	<p>No documented system architecture / network topology</p>
	<p><b>How effectively is your organization implementing the practices in this area?</b></p> <p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>

**15. Incident Management**

**Step 3a**

Statement	To what extent is this statement reflected in your organization?
<p><i>If staff from your organization is responsible for this area:</i></p> <p>Documented procedures exist for identifying, reporting, and responding to suspected security incidents and violations.</p>	<p>Very Much    Somewhat    <b>Not At All</b>    Don't Know</p>
<p>Incident management procedures are periodically tested, verified, and updated.</p>	<p>Very Much    Somewhat    <b>Not At All</b>    Don't Know</p>
<p>There are documented policies and procedures for working with law enforcement agencies.</p>	<p>Very Much    Somewhat    <b>Not At All</b>    Don't Know</p>
<p><i>If staff from a third party is responsible for this area:</i></p> <p>The organization's requirements for managing incidents are formally communicated to all contractors and service providers that provide incident management services.</p>	<p>Very Much    Somewhat    Not At All    Don't Know</p>
<p>The organization formally verifies that contractors and service providers have met the requirements for managing incidents.</p>	<p>Very Much    Somewhat    Not At All    Don't Know</p>

**15. Incident Management**

<b>Step 3b</b>	<b>Step 4</b>
<p><b>What is your organization currently doing well in this area?</b></p>	<p><b>How effectively is your organization implementing the practices in this area?</b></p>
	<p><input checked="" type="checkbox"/> Red</p> <p><input type="checkbox"/> Yellow</p> <p><input type="checkbox"/> Green</p> <p><input type="checkbox"/> Not Applicable</p>
<p><b>What is your organization currently <i>not</i> doing well in this area?</b></p>	<p>No contingency plans for notifying law enforcement / recognizing vulnerability exploitation documented</p>





---

## 5 Critical Asset Selection Worksheet

**Phase 1**  
**Process S2**  
**Activity S2.1**

<b>Step 5</b>	Review the information-related assets that you identified during Step 2 and select up to five (5) assets that are most critical to the organization.
---------------	--

**Step 5**

**Questions to Consider:**

*Which assets would have a large adverse impact on the organization if*

- *they are disclosed to unauthorized people?*
- *they are modified without authorization?*
- *they are lost or destroyed?*
- *access to them is interrupted?*

**Critical Asset**

1. Supplier information/payment --> contact and financial info
2. Transaction/Tax information --> financial information disclosure
3. Employee information/payment --> contact and financial info
4. Customer information/payment --> contact and financial info
5. Warehouse Inventory --> product and delivery info

<b>Notes</b>

OCTAVE-S V1.0

## 2 Critical Asset Information Worksheet for Information

Phase 1  
Process S2  
Activity S2.1

<b>Step 6</b>	Start a <i>Critical Asset Information worksheet</i> for each critical asset. Record the name of the critical asset on its <i>Critical Asset Information worksheet</i> .
---------------	---

<b>Step 7</b>	Record your rationale for selecting each critical asset on that asset's <i>Critical Asset Information worksheet</i> .
---------------	---

<b>Step 8</b>	Record a description for each critical asset on that asset's <i>Critical Asset Selection worksheet</i> . Consider who uses each critical asset as well as who is responsible for it.
---------------	--

<b>Step 9</b>	Record assets that are related to each critical asset on that asset's <i>Critical Asset Information worksheet</i> . Refer to the <i>Asset Identification worksheet</i> to determine which assets are related to each critical asset.
---------------	--

Phase 1  
Process S2  
Activity S2.2

<b>Step 10</b>	Record the security requirements for each critical asset on that asset's <i>Critical Asset Information worksheet</i> .
----------------	--

<b>Step 11</b>	For each critical asset, record the most important security requirement on that asset's <i>Critical Asset Information worksheet</i> .
----------------	---

Step 6	Step 7
<b>Critical Asset</b>	<b>Rationale for Selection</b>
<i>What is the critical information?</i>	<i>Why is this information critical to the organization?</i>

Step 9				
<b>Related Assets</b>				
<i>Which assets are related to this information?</i>				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;">Systems:</td> <td style="width: 50%; vertical-align: top;">Applications:</td> </tr> <tr> <td style="vertical-align: top;">Other:</td> <td></td> </tr> </table>	Systems:	Applications:	Other:	
Systems:	Applications:			
Other:				

Critical Asset Information Worksheet

**Step 8**

**Description**

*Who uses the information?*

*Who is responsible for the information?*

--	--

**Step 10**

**Security Requirements**

*What are the security requirements for this information?*

*(Hint: Focus on what the security requirements should be for this information, not what they currently are.)*

- Confidentiality      Only authorized personnel can view  
\_\_\_\_\_.
  
- Integrity              Only authorized personnel can modify  
\_\_\_\_\_.
  
- Availability            \_\_\_\_\_ must be available for personnel to perform their jobs.  
  
Unavailability cannot exceed \_\_\_\_\_ hour(s) per every \_\_\_\_\_ hours.
  
- Other                    \_\_\_\_\_  
\_\_\_\_\_

**Step 11**

**Most Important Security Requirement**

*Which security requirement is most important for this information?*

- Confidentiality
- Integrity
- Availability
- Other

OCTAVE-S V1.0



### 3 Risk Profile Worksheet for Information – Human Actors Using Network Access

Phase 1  
Process S2  
Activity S2.3

<b>Step 12</b>	<p>Complete the threat tree for <i>human actors using network access</i>. Mark each branch of each tree for which there is a non-negligible possibility of a threat to the asset.</p> <p>If you have difficulty interpreting a threat on the threat tree, review the description and examples of that threat in the <i>Threat Translation Guide</i> (see pp. 60-63 of this workbook).</p>
<b>Step 13</b>	<p>Record specific examples of threat actors on the <i>Risk Profile worksheet</i> for each applicable actor-motive combination.</p>
<b>Step 14</b>	<p>Record the strength of the motive for deliberate threats due to human actors. Also record how confident you are in your estimate of the strength of the actor's motive.</p>
<b>Step 15</b>	<p>Record how often each threat has occurred in the past. Also record how accurate you believe your data are.</p>
<b>Step 16</b>	<p>Record areas of concern for each source of threat where appropriate. An area of concern is a scenario defining how specific threats could affect the critical asset.</p>

continued

Phase 3  
Process S4  
Activity S4.1

**Step 22** Using the impact evaluation criteria as a guide, assign an impact value (high, medium, or low) to each active threat.

Phase 3  
Process S4  
Activity S4.3

**Step 24** Using the probability evaluation criteria as a guide, assign a probability value (high, medium, or low) to each active threat. Document your confidence level in your probability estimate.

Phase 3  
Process S5  
Activity S5.2

**Step 26** Transfer the stoplight status for each security practice area from the *Security Practices worksheet* to the “Security Practice Areas” section (Step 26) of the following worksheet.

**Step 27** Select a mitigation approach (mitigate, defer, accept) for each active risk.  
For each risk that you decided to mitigate, circle one or more security practice areas for which you intend to implement mitigation activities.

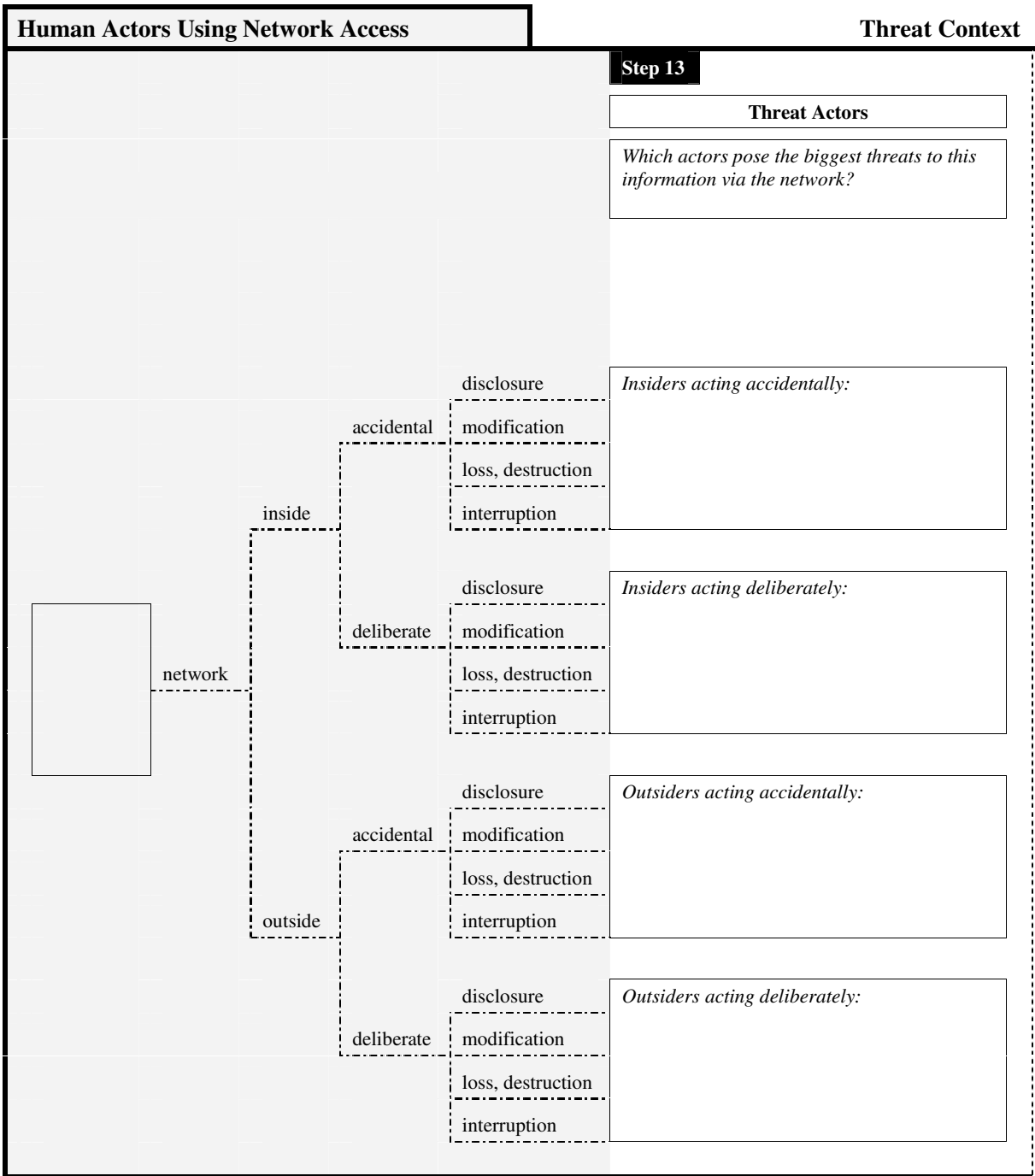


Human Actors Using Network Access					Basic Risk Profile						
Step 12					Step 22						
Threat					Impact Values						
<p>For which branches is there a non-negligible possibility of a threat to the asset? Mark these branches on the tree.</p> <p>For which of the remaining branches is there a negligible possibility or no possibility of a threat to the asset? Do not mark these branches.</p>					<p>What is the potential impact on the organization in each applicable area?</p>						
Asset	Access	Actor	Motive	Outcome	Reputation	Financial	Productivity	Fines	Safety	Other	
[ ]	network	inside	accidental	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		deliberate	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	outside	accidental	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		deliberate	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Basic Risk Profile**

**Human Actors Using Network Access**

Step 24			Step 26															Step 27			
Probability			Security Practice Areas															Approach			
<p><i>How likely is the threat to occur in the future? How confident are you in your estimate?</i></p>			<p><i>What is the stoplight status for each security practice area?</i></p>															<p><i>What is your approach for addressing each risk?</i></p>			
Value	Confidence		Strategic						Operational									Accept	Defer	Mitigate	
	Very	Somewhat	Not At All	1. Sec Training	2. Sec Strategy	3. Sec Mgmt	4. Sec Policy & Reg	5. Coll Sec Mgmt	6. Cont Planning	7. Phys Acc Cntrl	8. Monitor Phys Sec	9. Sys & Net Mgmt	10. Monitor IT Sec	11. Authen & Auth	12. Vul Mgmt	13. Encryption	14. Sec Arch & Des	15. Incident Mgmt			
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	----- -----									■	■								<input type="checkbox"/>	<input type="checkbox"/>	<



Threat Context				Human Actors Using Network Access					
Step 14				Step 15					
Motive				History					
<i>How strong is the actor's motive?</i>		<i>How confident are you in this estimate?</i>		<i>How often has this threat occurred in the past?</i>		<i>How accurate are the data?</i>			
High	Medium	Low	Very	Somewhat	Not At All	Very	Somewhat	Not At All	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Step 16**

**Human Actors Using Network Access**

**Areas of Concern**

**Insiders Using Network Access**

Give examples of how *insiders acting accidentally* could use network access to threaten this information.

--

Give examples of how *insiders acting deliberately* could use network access to threaten this information.

--

**Outsiders Using Network Access**

Give examples of how *outsiders acting accidentally* could use network access to threaten this information.

--

Give examples of how *outsiders acting deliberately* could use network access to threaten this information.

--



**Areas of Concern**

<b>Insiders Using Network Access</b>
<b>Outsiders Using Network Access</b>

OCTAVE-S V1.0

## 4 Risk Profile Worksheet for Information – Human Actors Using Physical Access

Phase 1  
Process S2  
Activity S2.3

<b>Step 12</b>	<p>Complete the threat tree for <i>human actors using physical access</i>. Mark each branch of each tree for which there is a non-negligible possibility of a threat to the asset.</p> <p>If you have difficulty interpreting a threat on the threat tree, review the description and examples of that threat in the <i>Threat Translation Guide</i> (see pp. 64-67 of this workbook).</p>
<b>Step 13</b>	<p>Record specific examples of threat actors on the <i>Risk Profile worksheet</i> for each applicable actor-motive combination.</p>
<b>Step 14</b>	<p>Record the strength of the motive for deliberate threats due to human actors. Also record how confident you are in your estimate of the strength of the actor's motive.</p>
<b>Step 15</b>	<p>Record how often each threat has occurred in the past. Also record how accurate you believe your data are.</p>
<b>Step 16</b>	<p>Record areas of concern for each source of threat where appropriate. An area of concern is a scenario defining how specific threats could affect the critical asset.</p>

continued

**Phase 3**  
**Process S4**  
**Activity S4.1**

**Step 22** Using the impact evaluation criteria as a guide, assign an impact value (high, medium, or low) to each active threat.

**Phase 3**  
**Process S4**  
**Activity S4.3**

**Step 24** Using the probability evaluation criteria as a guide, assign a probability value (high, medium, or low) to each active threat. Document your confidence level in your probability estimate.

**Phase 3**  
**Process S5**  
**Activity S5.2**

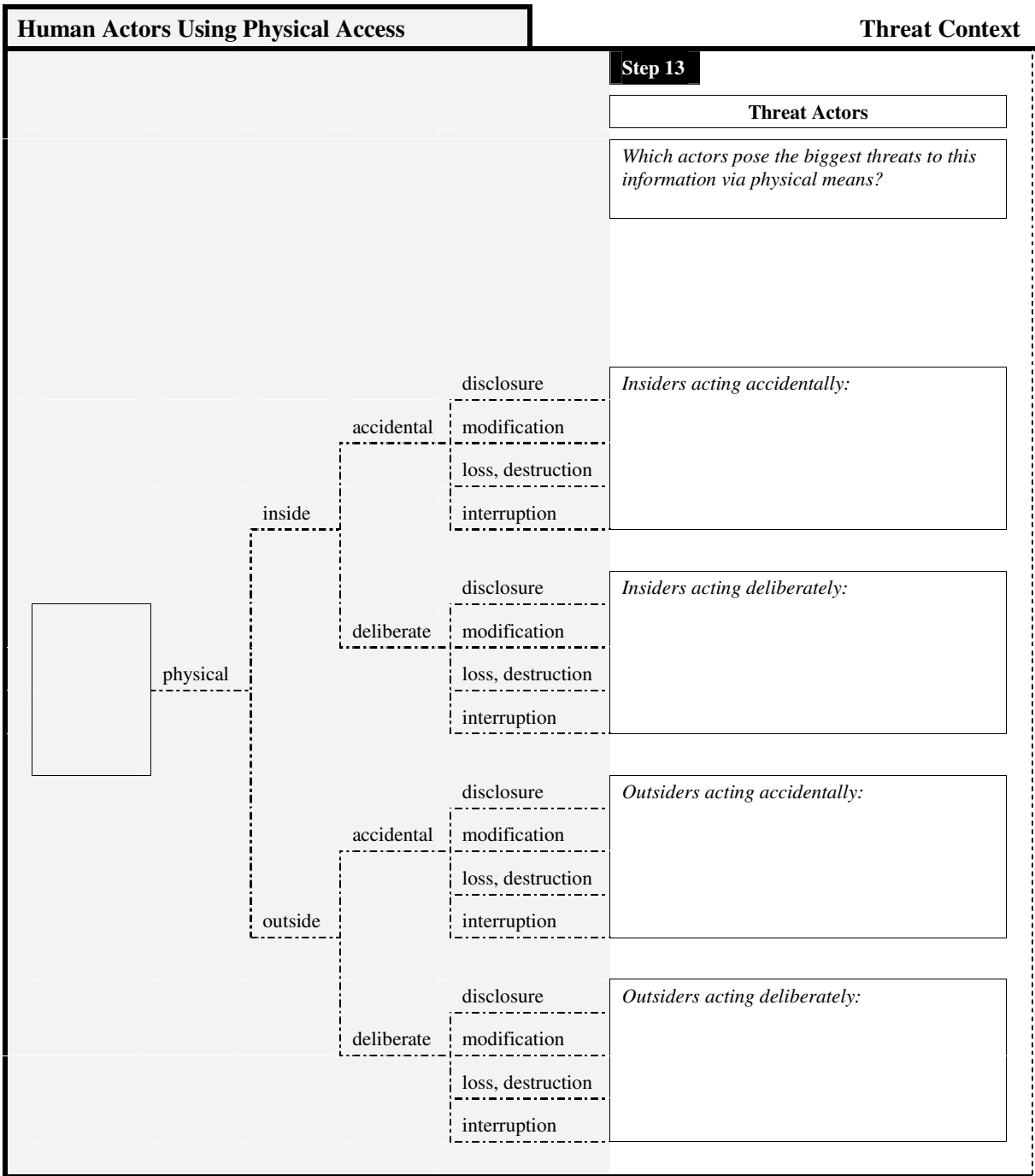
**Step 26** Transfer the stoplight status for each security practice area from the *Security Practices worksheet* to the “Security Practice Areas” section (Step 26) of the following worksheet.

**Step 27** Select a mitigation approach (mitigate, defer, accept) for each active risk.  
 For each risk that you decided to mitigate, circle one or more security practice areas for which you intend to implement mitigation activities.



Human Actors Using Physical Access					Basic Risk Profile						
Step 12					Step 22						
Threat					Impact Values						
<p>For which branches is there a non-negligible possibility of a threat to the asset? Mark these branches on the tree.</p> <p>For which of the remaining branches is there a negligible possibility or no possibility of a threat to the asset? Do not mark these branches.</p>					<p>What is the potential impact on the organization in each applicable area?</p>						
Asset	Access	Actor	Motive	Outcome	Reputation	Financial	Productivity	Fines	Safety	Other	
[ ]	physical	inside	accidental	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		deliberate	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	outside	accidental	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		deliberate	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>







Risk Profile Worksheet for Information: Physical Access

Threat Context				Human Actors Using Physical Access					
Step 14				Step 15					
Motive				History					
<i>How strong is the actor's motive?</i>		<i>How confident are you in this estimate?</i>		<i>How often has this threat occurred in the past?</i>		<i>How accurate are the data?</i>			
<b>High</b>	<b>Medium</b>	<b>Low</b>	<b>Very</b>			<b>Very</b>	<b>Somewhat</b>	<b>Not At All</b>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ times in _____ years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Step 16**

**Human Actors Using Physical Access**

**Areas of Concern**

**Insiders Using Physical Access**

Give examples of how *insiders acting accidentally* could use physical access to threaten this information.


Give examples of how *insiders acting deliberately* could use physical access to threaten this information.


**Outsiders Using Physical Access**

Give examples of how *outsiders acting accidentally* could use physical access to threaten this information.


Give examples of how *outsiders acting deliberately* could use physical access to threaten this information.


**Areas of Concern**

<b>Insiders Using Physical Access</b>
<b>Outsiders Using Physical Access</b>

OCTAVE-S V1.0

---

## 5 Risk Profile Worksheet for Information – System Problems

Phase 1  
Process S2  
Activity S2.3

<b>Step 12</b>	<p>Complete the threat tree for <i>system problems</i>. Mark each branch of each tree for which there is a non-negligible possibility of a threat to the asset.</p> <p>If you have difficulty interpreting a threat on the threat tree, review the description and examples of that threat in the <i>Threat Translation Guide</i> (see pp. 68-71 of this workbook).</p>
<b>Step 15</b>	<p>Record how often each threat has occurred in the past. Also record how accurate you believe your data are.</p>
<b>Step 16</b>	<p>Record areas of concern for each source of threat where appropriate. An area of concern is a scenario defining how specific threats could affect the critical asset.</p>

continued

**Phase 3**  
**Process S4**  
**Activity S4.1**

**Step 22** Using the impact evaluation criteria as a guide, assign an impact value (high, medium, or low) to each active threat.

**Phase 3**  
**Process S4**  
**Activity S4.3**

**Step 24** Using the probability evaluation criteria as a guide, assign a probability value (high, medium, or low) to each active threat. Document your confidence level in your probability estimate.

**Phase 3**  
**Process S5**  
**Activity S5.2**

**Step 26** Transfer the stoplight status for each security practice area from the *Security Practices worksheet* to the “Security Practice Areas” section (Step 26) of the following worksheet.

**Step 27** Select a mitigation approach (mitigate, defer, accept) for each active risk.  
 For each risk that you decided to mitigate, circle one or more security practice areas for which you intend to implement mitigation activities.



System Problems			Basic Risk Profile					
Step 12			Step 22					
Threat			Impact Values					
<p>For which branches is there a non-negligible possibility of a threat to the asset? Mark these branches on the tree.</p> <p>For which of the remaining branches is there a negligible possibility or no possibility of a threat to the asset? Do not mark these branches.</p>			<p>What is the potential impact on the organization in each applicable area?</p>					
Asset	Actor	Outcome	Reputation	Financial	Productivity	Fines	Safety	Other
		disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	software defects	modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	system crashes	modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	hardware defects	modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	malicious code	modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(virus, worm, Trojan horse, back door)	loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





System Problems		Threat Context		
<b>Step 15</b>				
		<b>History</b>		
		<i>How often has this threat occurred in the past?</i>	<i>How accurate are the data?</i>	
			<b>Very</b> <b>Somewhat</b> <b>Not At All</b>	
<div style="border: 1px solid black; width: 60px; height: 80px; margin: 0 auto;"></div>	software defects	disclosure	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		modification	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		loss, destruction	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		interruption	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		disclosure	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		modification	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		loss, destruction	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		interruption	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		disclosure	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		modification	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		loss, destruction	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		interruption	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	disclosure	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	modification	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	loss, destruction	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	interruption	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	disclosure	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	modification	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	loss, destruction	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	interruption	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

Risk Profile Worksheet for Information: System Problems

Threat Context	System Problems
<p style="text-align: center;"><b>Notes</b></p>	
<p style="text-align: center;"><i>What additional notes about each threat do you want to record?</i></p>	

**Step 16**

**System Problems**

**Areas of Concern**

**Software Defects**

Give examples of how *software defects* could threaten this information.

**System Crashes**

Give examples of how *system crashes* could threaten this information.

**Hardware Defects**

Give examples of how *hardware defects* could threaten this information.

**Malicious Code**

Give examples of how *malicious code* could threaten this information. (Consider viruses, worms, Trojan horses, back doors, others)

Risk Profile Worksheet for Information: System Problems

**Areas of Concern**

	<b>Software Defects</b>
	<b>System Crashes</b>
	<b>Hardware Defects</b>
	<b>Malicious Code</b>



---

## 6 Risk Profile Worksheet for Information – Other Problems

Phase 1  
Process S2  
Activity S2.3

<b>Step 12</b>	<p>Complete the threat tree for <i>other problems</i>. Mark each branch of each tree for which there is a non-negligible possibility of a threat to the asset.</p> <p>If you have difficulty interpreting a threat on the threat tree, review the description and examples of that threat in the <i>Threat Translation Guide</i> (see pp. 72-77 of this workbook).</p>
<b>Step 15</b>	<p>Record how often each threat has occurred in the past. Also record how accurate you believe your data are.</p>
<b>Step 16</b>	<p>Record areas of concern for each source of threat where appropriate. An area of concern is a scenario defining how specific threats could affect the critical asset.</p>

continued

**Phase 3**  
**Process S4**  
**Activity S4.1**

<b>Step 22</b>	Using the impact evaluation criteria as a guide, assign an impact value (high, medium, or low) to each active threat.
----------------	---

**Phase 3**  
**Process S4**  
**Activity S4.3**

<b>Step 24</b>	Using the probability evaluation criteria as a guide, assign a probability value (high, medium, or low) to each active threat. Document your confidence level in your probability estimate.
----------------	---

**Phase 3**  
**Process S5**  
**Activity S5.2**

<b>Step 26</b>	Transfer the stoplight status for each security practice area from the <i>Security Practices worksheet</i> to the “Security Practice Areas” section (Step 26) of the following worksheet.
----------------	---

<b>Step 27</b>	<p>Select a mitigation approach (mitigate, defer, accept) for each active risk.</p> <p>For each risk that you decided to mitigate, circle one or more security practice areas for which you intend to implement mitigation activities.</p>
----------------	--





Other Problems			Basic Risk Profile					
Step 12			Step 22					
Threat			Impact Values					
<p>For which branches is there a non-negligible possibility of a threat to the asset? Mark these branches on the tree.</p> <p>For which of the remaining branches is there a negligible possibility or no possibility of a threat to the asset? Do not mark these branches.</p>			<p>What is the potential impact on the organization in each applicable area?</p>					
Asset	Actor	Outcome	Reputation	Financial	Productivity	Fines	Safety	Other
<div style="border: 1px solid black; width: 80px; height: 100px; margin: 0 auto;"></div>	power supply problems	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	telecommunications problems or unavailability	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	third-party problems or unavailability of third-party systems	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	natural disasters (e.g., flood, fire, tornado)	disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Other Problems		Threat Context		
<b>Step 15</b>				
		<b>History</b>		
		<i>How often has this threat occurred in the past?</i>	<i>How accurate are the data?</i>	
			<b>Very</b> <b>Somewhat</b> <b>Not At All</b>	
<div style="border: 1px solid black; width: 50px; height: 100px; margin-bottom: 10px;"></div>	power supply problems	disclosure	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		modification	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		loss, destruction	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		interruption	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	telecommunications problems or unavailability	disclosure	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		modification	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		loss, destruction	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		interruption	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	third-party problems or unavailability of third-party systems	disclosure	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		modification	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		loss, destruction	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		interruption	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
natural disasters (e.g., flood, fire, tornado)	disclosure	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	modification	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	loss, destruction	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	interruption	_____ times in _____ years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

Threat Context	Other Problems
<b>Notes</b>	
<i>What additional notes about each threat do you want to record?</i>	

**Step 16**

**Other Problems**

**Areas of Concern**

**Power Supply Problems**

Give examples of how *power supply problems* could threaten this information.

**Telecommunications Problems**

Give examples of how *telecommunications problems* could threaten this information.

**Third-Party Problems**

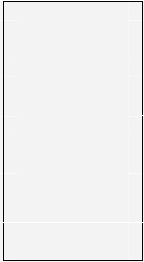
Give examples of how *third-party problems* could threaten this information.

**Natural Disasters**

Give examples of how *natural disasters* could threaten this information.

**Areas of Concern**

	<b>Power Supply Problems</b>
	<b>Telecommunications Problems</b>
	<b>Third-Party Problems</b>
	<b>Natural Disasters</b>

Other Problems (cont.)			Basic Risk Profile					
Step 12			Step 22					
Threat			Impact Values					
<p>For which branches is there a non-negligible possibility of a threat to the asset? Mark these branches on the tree.</p> <p>For which of the remaining branches is there a negligible possibility or no possibility of a threat to the asset? Do not mark these branches.</p>			<p>What is the potential impact on the organization in each applicable area?</p>					
Asset	Actor	Outcome	Reputation	Financial	Productivity	Fines	Safety	Other
		disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	physical configuration or arrangement of buildings, offices, or equipment	modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		loss, destruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		interruption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		disclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



**Basic Risk Profile**

**Other Problems (cont.)**

Step 24			Step 26												Step 27						
Probability			Security Practice Areas												Approach						
<p><i>How likely is the threat to occur in the future? How confident are you in your estimate?</i></p>			<p><i>What is the stoplight status for each security practice area?</i></p>												<p><i>What is your approach for addressing each risk?</i></p>						
Value	Confidence		Strategic						Operational						Accept	Defer	Mitigate				
	Very	Somewhat	Not At All	1. Sec Training	2. Sec Strategy	3. Sec Mgmt	4. Sec Policy & Reg	5. Coll Sec Mgmt	6. Cont Planning	7. Phys Acc Cntrl	8. Monitor Phys Sec	9. Sys & Net Mgmt	10. Monitor IT Sec	11. Authen & Auth	12. Vul Mgmt	13. Encryption	14. Sec Arch & Des	15. Incident Mgmt			
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-----	-----	-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other Problems (cont.)	Threat Context		
<b>Step 15</b>			
	<b>History</b>		
	<i>How often has this threat occurred in the past?</i>	<i>How accurate are the data?</i>	
		<b>Very</b> <b>Somewhat</b> <b>Not At All</b>	
<div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto;"></div> physical configuration or arrangement of buildings, offices, or equipment	disclosure	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	modification	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	loss, destruction	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	interruption	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	disclosure	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	modification	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	loss, destruction	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	interruption	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	disclosure	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	modification	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	loss, destruction	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	interruption	<input type="text"/> times in <input type="text"/> years	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Threat Context	Other Problems (cont.)
<b>Notes</b>	
<i>What additional notes about each threat do you want to record?</i>	

**Step 16**

**Other Problems (cont.)**

**Areas of Concern**

<b>Physical Configuration Problems</b>	
Give examples of how <i>physical configuration of buildings, offices, or equipment</i> could threaten this information.	
_____  could threaten this information.	
_____  could threaten this information.	
_____  could threaten this information.	



OCTAVE-S V1.0

---

## 7 Network Access Paths Worksheet

Phase 2  
Process S3  
Activity S3.1

<b>Step 17</b>	Select the system of interest for each critical asset (i.e., the system most closely related to the critical asset).
<b>Step 18a</b>	Review paths used to access each critical asset, and select key classes of components related to each critical asset. Determine which classes of components are part of the system of interest.
<b>Step 18b</b>	Determine which classes of components serve as intermediate access points (i.e., which components are used to transmit information and applications from the system of interest to people).
<b>Step 18c</b>	Determine which classes of components, both internal and external to the organization's networks, are used by people (e.g., users, attackers) to access the system.
<b>Step 18d</b>	Determine where information from the system of interest is stored for backup purposes.
<b>Step 18e</b>	Determine which other systems access information or applications from the system of interest and which other classes of components can be used to access critical information or services from the system of interest.

**Step 17**

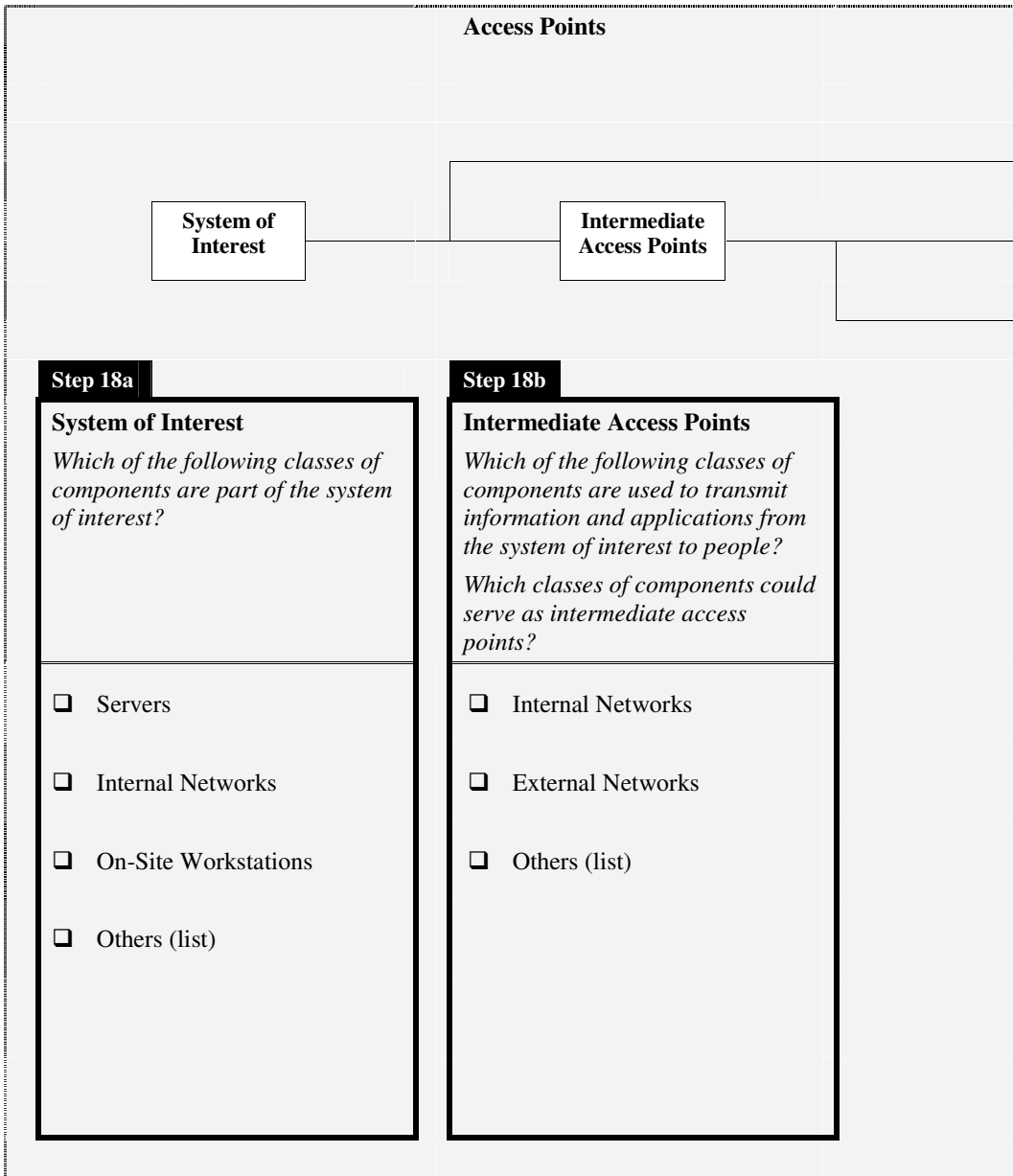
**System of Interest**

*What system or systems are most closely related to the critical asset?*

---



---





*Note: When you select a key class of components, make sure that you also document any relevant subclasses or specific examples when appropriate.*

Access Points		
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>Data Storage Locations</b> </div>	
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>System Access by People</b> </div>		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>Other Systems/Components</b> </div>
<div style="background-color: #f0f0f0; padding: 5px; margin-bottom: 5px;"><b>Step 18c</b></div> <div style="border: 2px solid black; padding: 10px;"> <p><b>System Access by People</b></p> <p><i>From which of the following classes of components can people (e.g., users, attackers) access the system of interest?</i></p> <p><i>Consider access points both internal and external to your organization's networks.</i></p> <hr/> <ul style="list-style-type: none"> <li><input type="checkbox"/> On-Site Workstations</li> <li><input type="checkbox"/> Laptops</li> <li><input type="checkbox"/> PDAs/Wireless Components</li> <li><input type="checkbox"/> Home/External Workstations</li> <li><input type="checkbox"/> Others (list)</li> </ul> </div>	<div style="background-color: #f0f0f0; padding: 5px; margin-bottom: 5px;"><b>Step 18d</b></div> <div style="border: 2px solid black; padding: 10px;"> <p><b>Data Storage Locations</b></p> <p><i>On which classes of components is information from the system of interest stored for backup purposes?</i></p> <hr/> <ul style="list-style-type: none"> <li><input type="checkbox"/> Storage Devices</li> <li><input type="checkbox"/> Others (list)</li> </ul> </div>	<div style="background-color: #f0f0f0; padding: 5px; margin-bottom: 5px;"><b>Step 18e</b></div> <div style="border: 2px solid black; padding: 10px;"> <p><b>Other Systems and Components</b></p> <p><i>Which other systems access information or applications from the system of interest?</i></p> <p><i>Which other classes of components can be used to access critical information or applications from the system of interest?</i></p> <hr/> <ul style="list-style-type: none"> <li><input type="checkbox"/> _____</li> <li><input type="checkbox"/> _____</li> <li><input type="checkbox"/> _____</li> </ul> </div>

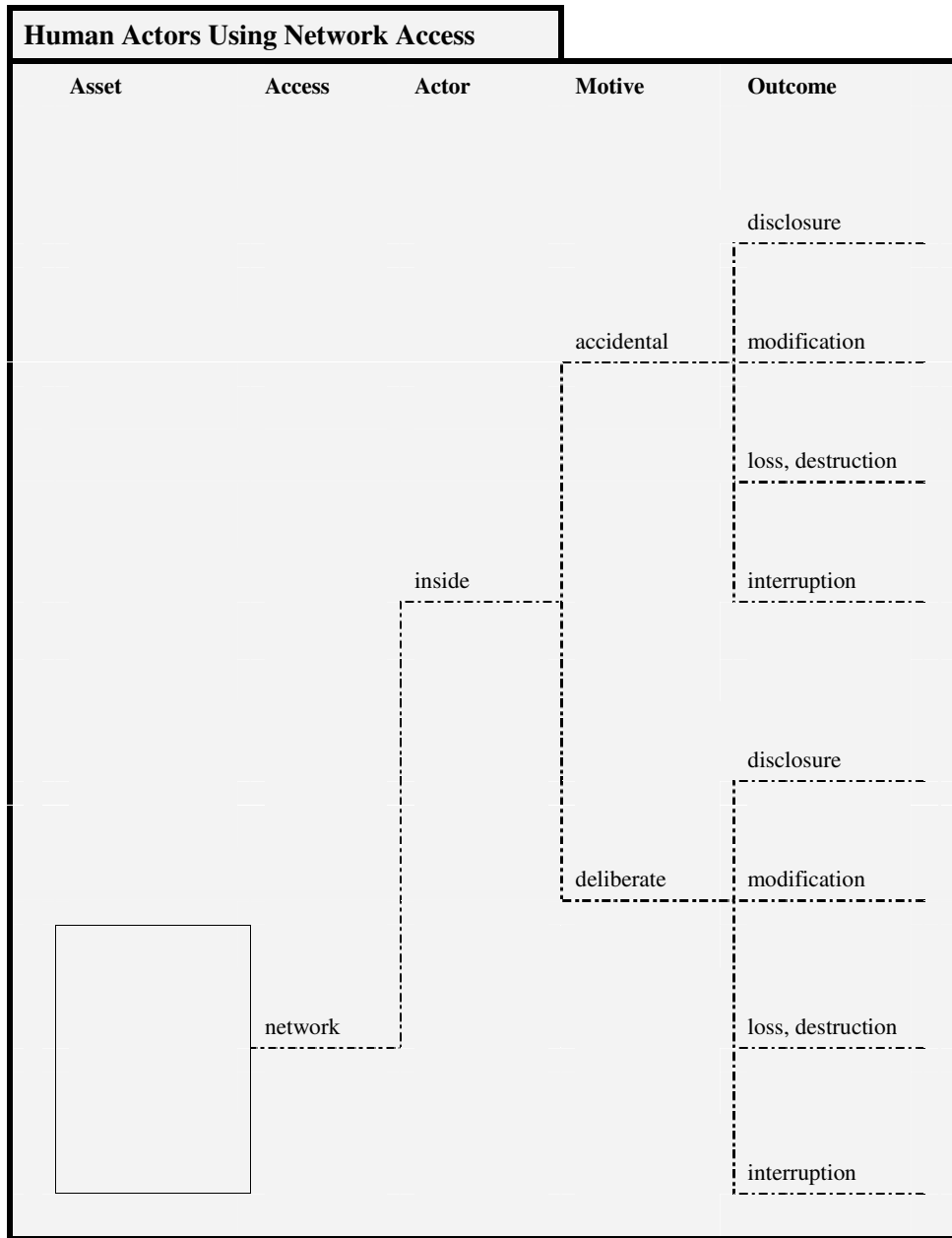
OCTAVE-S V1.0

---

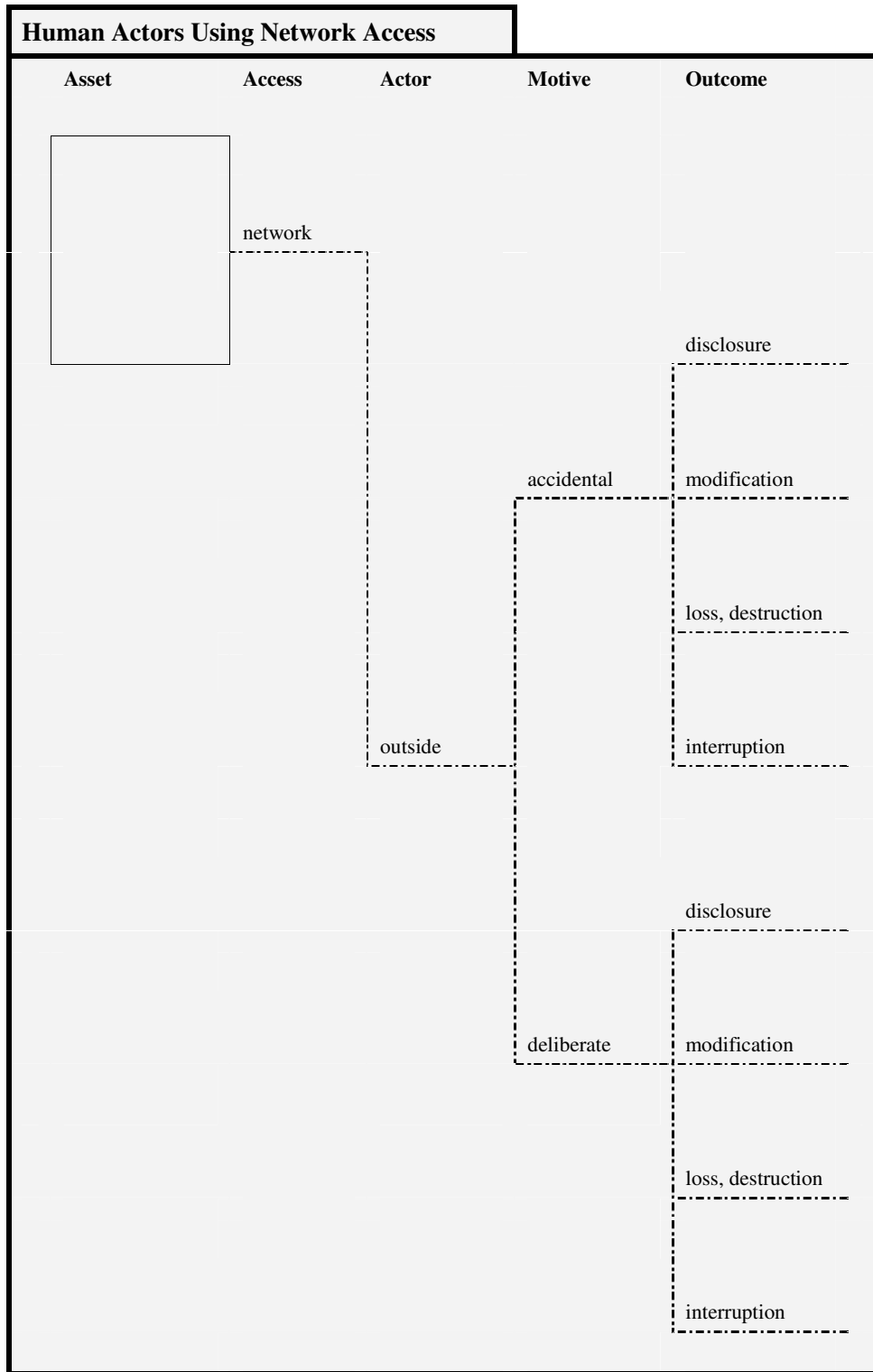
## 8 Threat Translation Guide

Phase 1  
Process S2  
Activity S2.3

<b>Threat Translation Guide</b>	<p>The <i>Threat Translation Guide</i> describes each branch of an asset-based threat tree. If you have difficulty understanding the types of threats represented by a branch, you can use this guide to decipher the meaning of that branch.</p> <p>You will find asset-based threat trees for the following sources of threat:</p>	
	<b>Source of Threat</b>	<b>Page</b>
	Human actors using network access	60-63
	Human actors using physical access	64-67
	System problems	68-71
	Other problems	72-77



Description	Example
A staff member without malicious intent who has legitimate access to the computing infrastructure accidentally views confidential information on an important system.	Incorrect file permissions enable a staff member to accidentally access a restricted personnel database.
A staff member without malicious intent who has legitimate access to the computing infrastructure accidentally modifies information on an important system.	A staff member accidentally enters incorrect financial data into a customer database.
A staff member without malicious intent who has legitimate access to the computing infrastructure accidentally loses or destroys information on an important system.	A staff member deletes an important customer file by mistake.
A staff member without malicious intent who has legitimate access to the computing infrastructure accidentally interrupts access to an important system.	A staff member who is not computer savvy inadvertently crashes an important system.
A staff member with malicious intent who has legitimate access to the computing infrastructure exploits that access to deliberately view confidential information on an important system.	A staff member uses access to a restricted personnel database to deliberately view information in that database that is restricted by policy.
A staff member with malicious intent who has legitimate access to the computing infrastructure exploits that access to deliberately modify information on an important system.	A staff member responsible for data entry deliberately enters incorrect customer information into a database.
A staff member with malicious intent who has legitimate access to the computing infrastructure exploits that access to deliberately lose or destroy information on an important system.	A staff member with access to design documents for a new product deliberately deletes the files that contain those design documents.
A staff member with malicious intent who has legitimate access to the computing infrastructure exploits that access to deliberately interrupt access to an important system.	A staff member uses legitimate access to the computing infrastructure to launch a denial-of-service attack on an important system.

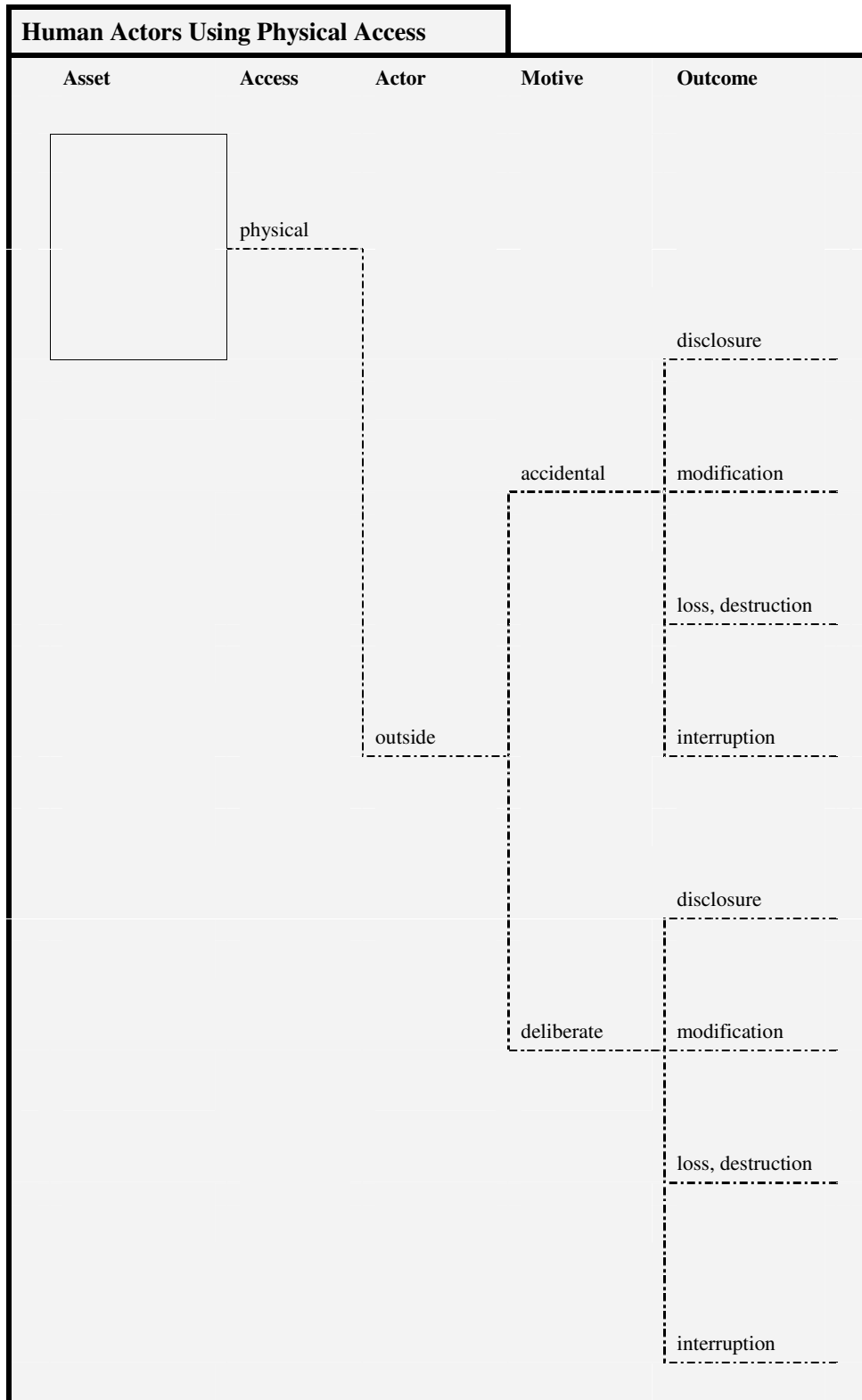


Description	Example
An outsider without malicious intent gains access to your computing infrastructure (legitimately or by accident) and views confidential data on a system.	Temporary employees are given access to your computing infrastructure to help with an increased workload. While performing their job duties, one of them accidentally views confidential personnel data.
An outsider without malicious intent gains access to your computing infrastructure (legitimately or by accident) and accidentally modifies information on a system.	Temporary employees are given access to your computing infrastructure to help with an increased workload. While performing their job duties, one of them accidentally modifies important customer data.
An outsider without malicious intent gains access to your computing infrastructure (legitimately or by accident) and loses or destroys information on a system.	Temporary employees are given access to your computing infrastructure to help with an increased workload. While performing their job duties, one of them accidentally loses or destroys financial data.
An outsider without malicious intent gains access to your computing infrastructure (legitimately or by accident) and accidentally interrupts access to a system.	Temporary employees are given access to your computing infrastructure to help with an increased workload. While performing their job duties, one of them accidentally crashes an important system.
An attacker with malicious intent deliberately exploits vulnerabilities in the computing infrastructure to view confidential information.	A corporate spy exploits vulnerabilities in the computing infrastructure to gain unauthorized access to a key business system. The spy uses that access to view confidential customer information on the system.
An attacker with malicious intent deliberately exploits vulnerabilities in the computing infrastructure to modify information.	A corporate spy exploits vulnerabilities in the computing infrastructure to gain unauthorized access to a key business system. The spy uses that access to modify financial data on the system.
An attacker with malicious intent deliberately exploits vulnerabilities in the computing infrastructure to lose or destroy information.	A corporate spy exploits vulnerabilities in the computing infrastructure to gain unauthorized access to a key business system. The spy uses that access to lose or destroy a new product design on the system.
An attacker with malicious intent deliberately exploits vulnerabilities in the computing infrastructure to interrupt access to a system.	A corporate spy exploits vulnerabilities in the computing infrastructure to gain unauthorized access to an airline's scheduling system. The spy uses that access to crash the system and prevent real-time updates.

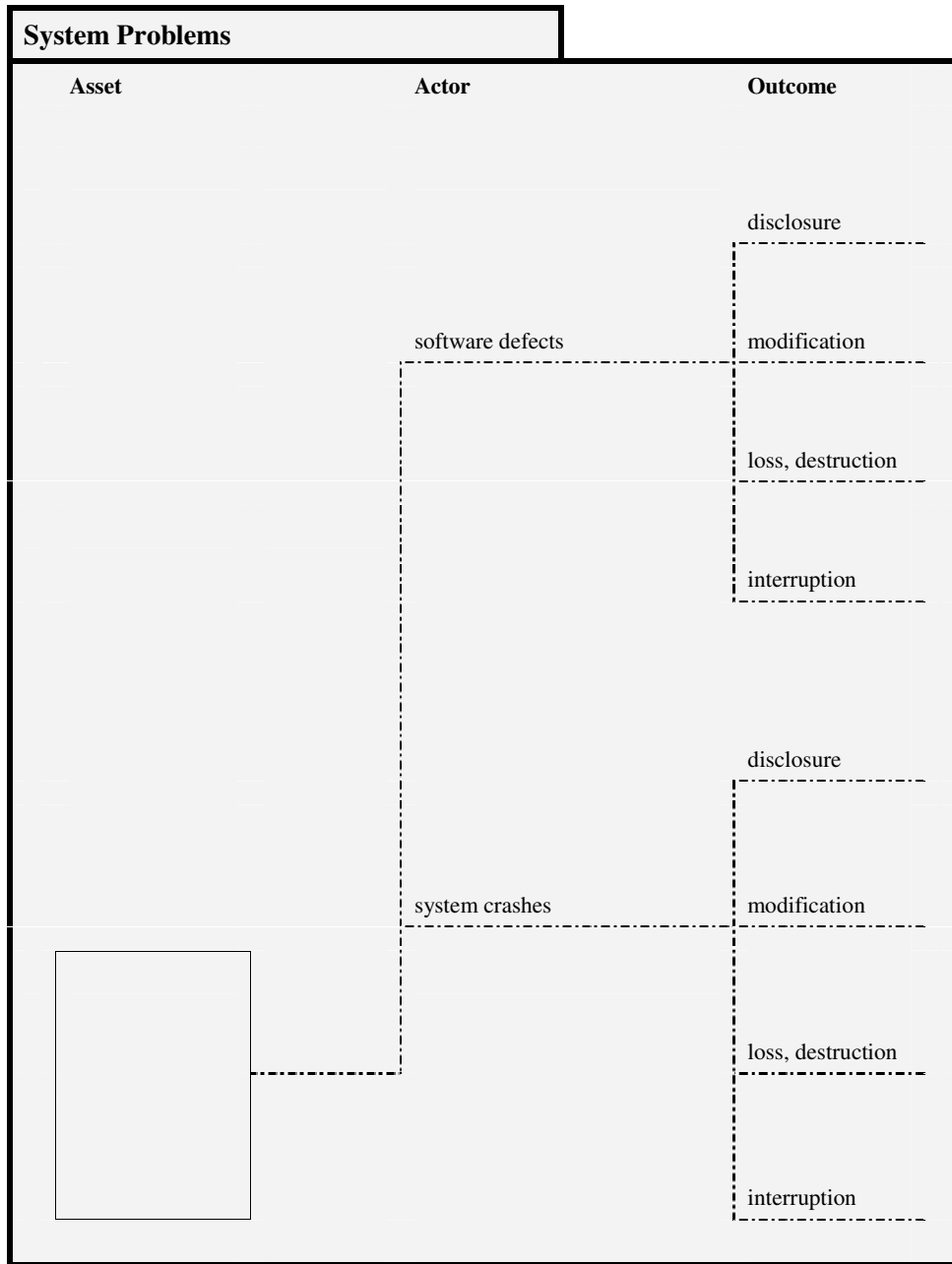
Human Actors Using Physical Access				
Asset	Access	Actor	Motive	Outcome
				disclosure
			accidental	modification
				loss, destruction
		inside		interruption
				disclosure
			deliberate	modification
	physical			loss, destruction
				interruption



Description	Example
A staff member without malicious intent accidentally views confidential information after gaining physical access to a system, one of its components, or a physical copy of the information.	A staff member accidentally sees confidential information on (1) a colleague's computer screen or (2) a printout on a colleague's desk.
A staff member without malicious intent accidentally modifies information after gaining physical access to a system, one of its components, or a physical copy of the information.	A staff member modifies information by (1) accidentally altering information on a colleague's computer while using it for another purpose or (2) accidentally taking a page of a printout on a colleague's desk.
A staff member without malicious intent accidentally loses or destroys information after gaining physical access to a system, one of its components, or a physical copy of the information.	A staff member loses or destroys information by (1) accidentally deleting information from a colleague's computer while using it or (2) shredding a paper accidentally taken from a colleague's desk.
A staff member without malicious intent interrupts access to a system or information by accidentally using physical access to a system, one of its components, or a physical copy of the information to prevent others from accessing the system or information.	A staff member interrupts access to a system by (1) accidentally crashing the system while accessing it from a colleague's computer or (2) locking the keys inside an office where a physical file is stored.
A staff member with malicious intent deliberately views confidential information by breaching physical security and accessing components of the computing infrastructure or a physical copy of the information.	A staff member uses unauthorized access to a physically restricted area of the building to deliberately (1) view confidential information on a computer or (2) read a confidential memo lying on a desk.
A staff member with malicious intent deliberately modifies information by breaching physical security and accessing components of the computing infrastructure or a physical copy of the information.	A staff member uses unauthorized access to a physically restricted area of the building to deliberately (1) modify information on a computer or (2) modify a physical file lying on a desk.
A staff member with malicious intent deliberately loses or destroys information by breaching physical security and accessing components of the computing infrastructure or a physical copy of the information.	A staff member uses unauthorized access to a physically restricted area of the building to deliberately (1) delete information on a computer or (2) destroy a physical file lying on a desk.
A staff member with malicious intent deliberately interrupts access to an important system or information by breaching physical security to a system, one of its components, or a physical copy of the information and using that physical access to prevent others from accessing the system or information.	A staff member uses unauthorized access to a physically restricted area of the building to (1) gain access to and then deliberately crash an important business system or (2) jam the door and prevent others from physically accessing the systems and information located in that area of the building.

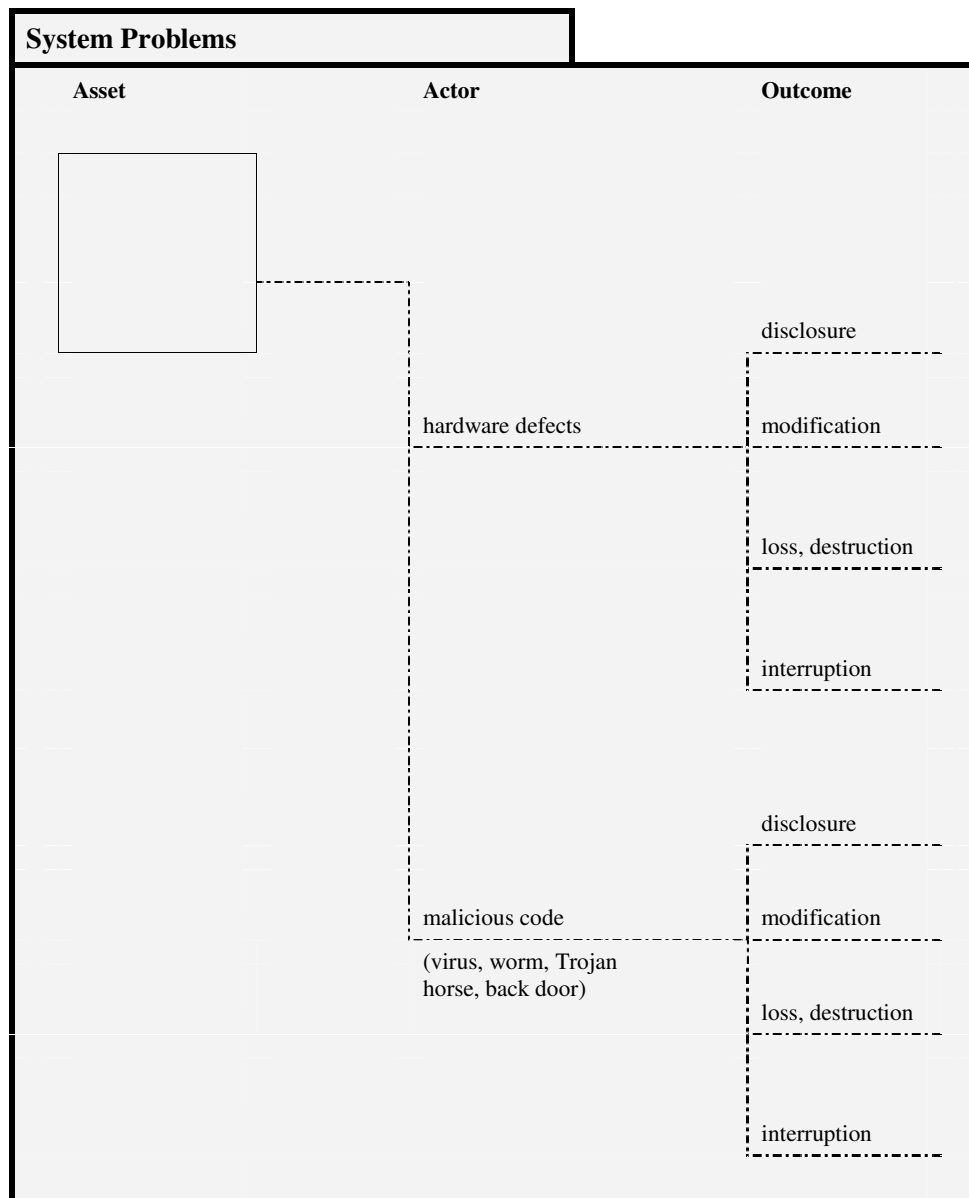


Description	Example
An outsider without malicious intent gains physical access to your computing infrastructure or a physical copy of information and uses that access to view confidential information accidentally.	A consultant is given access to a staff member's office and accidentally sees confidential information on (1) a staff member's computer screen or (2) a printout on a staff member's desk.
An outsider without malicious intent gains physical access to your computing infrastructure or a physical copy of information and uses that access to modify information accidentally.	A consultant is given access to the computer room and (1) accidentally makes the wrong change to a configuration file on a server or (2) accidentally records the wrong information in a maintenance log.
An outsider without malicious intent gains physical access to your computing infrastructure or a physical copy of information and uses that access to lose or destroy information accidentally.	A consultant configuring one of your servers is given access to the computer room and accidentally (1) destroys an important electronic file or (2) throws away an important piece of system documentation.
An outsider without malicious intent gains physical access to your computing infrastructure or a physical copy of information and uses that access to accidentally prevent others from accessing the information.	A consultant configuring one of your servers is given access to the computer room and accidentally (1) crashes a system while accessing it or (2) locks the keys to the computer room inside it after he or she leaves.
An attacker with malicious intent deliberately views confidential information by breaching physical security and accessing components of the computing infrastructure or a physical copy of the information.	A corporate spy poses as a member of the cleaning crew to gain unauthorized physical access to a competitor's site and view confidential information either (1) on a key business system or (2) in a physical file.
An attacker with malicious intent deliberately modifies information by breaching physical security and accessing components of the computing infrastructure or a physical copy of the information.	A corporate spy poses as a member of the cleaning crew to gain unauthorized physical access to a competitor's site and modify financial information either (1) on a key business system or (2) in a physical file.
An attacker with malicious intent deliberately loses or destroys information by breaching physical security and accessing components of the computing infrastructure or a physical copy of the information.	A corporate spy poses as a member of the cleaning crew to gain unauthorized physical access to a competitor's site and destroy customer information either (1) on a key business system or (2) in a physical file.
An attacker with malicious intent deliberately interrupts access to an important system or information by breaching physical security to a system, one of its components, or a physical copy of the information and by using that physical access to prevent others from accessing the system or information.	A corporate spy poses as a member of the cleaning crew to gain unauthorized physical access to a competitor's site and (1) deliberately crashes an important business system or (2) jams the door to prevent others from physically accessing the systems and information located in an area of the building.



\* Blank lines indicate unusual or extremely rare possibilities.

Description	Example*
A software defect results in disclosure of information to unauthorized parties.	A defect in a computer's operating system changes file access permissions to permit world read and write permissions on certain files and directories.
A software defect results in modification of information on a system.	A custom software application incorrectly performs mathematical operations on data, affecting the integrity of the results.
A software defect results in the loss or destruction of information on a system.	A word processing application is known to crash computers periodically because of a problem with a specific command sequence, destroying any information that was not saved.
A software defect results in a system crash, preventing access to the system.	A word processing application is known to crash computers periodically because of a problem with a specific command sequence, preventing access to that computer.
A system crashes for unknown reasons (i.e., it cannot be traced to a software defect, hardware defect, malicious code, or actions by people), resulting in disclosure of information to unauthorized parties.	---
A system crashes for unknown reasons (i.e., it cannot be traced to a software defect, hardware defect, malicious code, or actions by people), resulting in modification of information on that system.	A system crashes during a lengthy update of a financial database, corrupting the information in the database.
A system crashes for unknown reasons (i.e., it cannot be traced to a software defect, hardware defect, malicious code, or actions by people), resulting in the loss or destruction of information on that system.	A customer database system frequently crashes, destroying any information that was not saved at the time of the crash.
A system crashes for unknown reasons (i.e., it cannot be traced to a software defect, hardware defect, malicious code, or actions by people), resulting in interruption of access to that system.	An email server crashes, resulting in interruption of user access to email.



\* Blank lines indicate unusual or extremely rare possibilities.

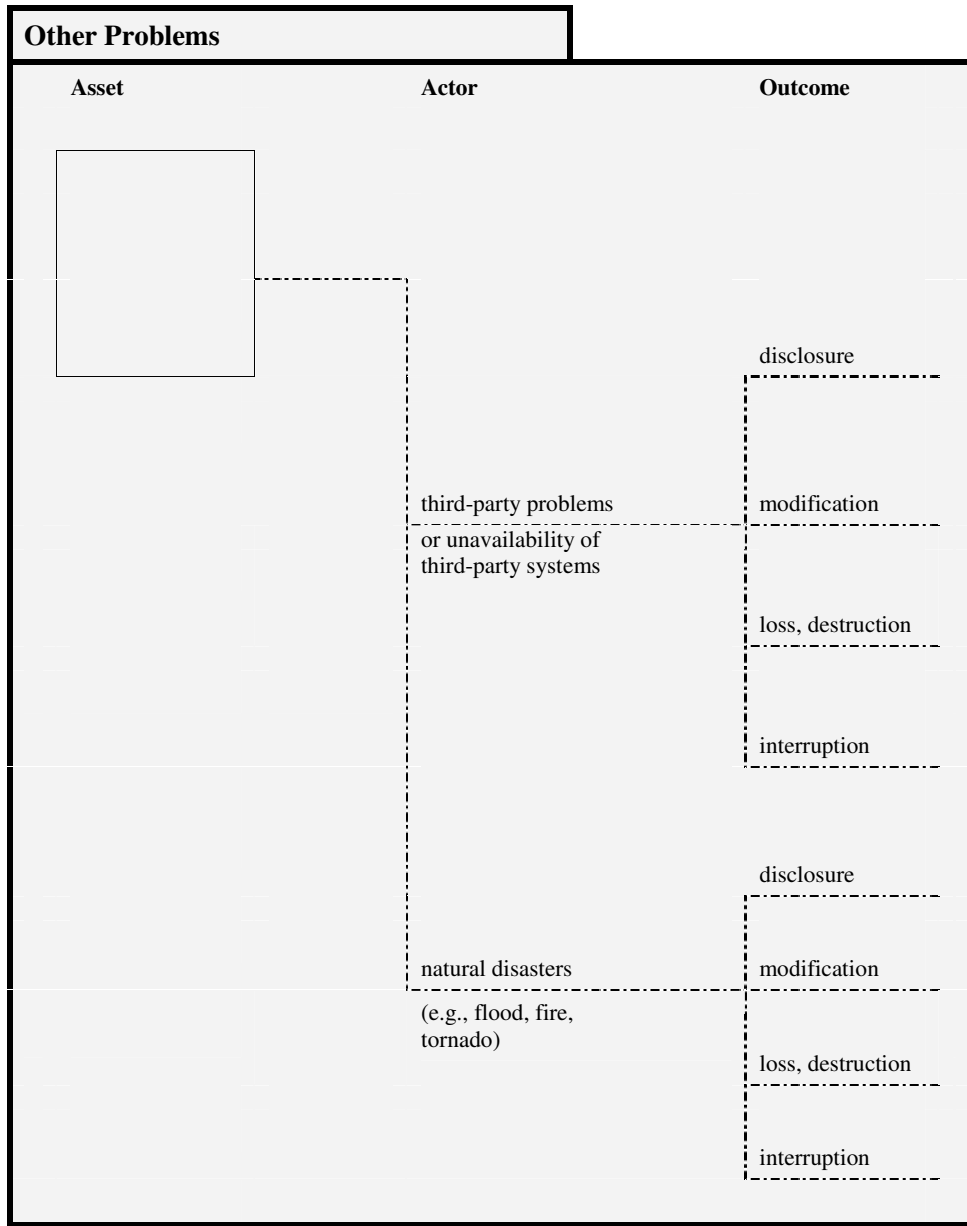
Description	Example*
A hardware defect results in disclosure of information to unauthorized parties.	---
A hardware defect results in modification of information on a system.	A disk drive develops a hardware problem that affects the integrity of a database that is stored on the disk.
A hardware defect results in the loss or destruction of information on a system.	A disk drive develops a hardware problem that ends up destroying the information on the disk. Files can be retrieved only from backups.
A hardware defect results in a system crash, preventing access to the system.	A disk drive develops a hardware problem, preventing access to any information on the disk until the problem is corrected.
A system is affected by malicious code (virus, worm, Trojan horse, back door) that enables unauthorized parties to view information.	A back door on a system enables unauthorized people to access the system and view customer credit card information on that system.
A system is affected by malicious code (virus, worm, Trojan horse, back door) that modifies information on that system.	A system is infected with a virus that modifies a process control application on the computer's disk drive.
A system is affected by malicious code (virus, worm, Trojan horse, back door) that deletes information on that system.	A system is infected with a virus that deletes all information on the computer's disk drive.
A system is affected by malicious code (virus, worm, Trojan horse, back door) that results in the system crashing.	A system is infected with a virus that is spread via email, slowing network traffic and creating a denial-of-services attack.

Other Problems		
Asset	Actor	Outcome
		disclosure
	power supply problems	modification
		loss, destruction
		interruption
	telecommunications	disclosure
	problems or unavailability	modification
		loss, destruction
		interruption

\* Blank lines indicate unusual or extremely rare possibilities.



Description	Example*
Problems with the power supply lead to disclosure of information to unauthorized parties.	---
Problems with the power supply lead to modification of information on a system.	---
Problems with the power supply lead to loss or destruction of information on a system.	A power outage results in loss of any information that was not saved at the time of the outage.
Problems with the power supply lead to interruption of access to a system.	A power outage prevents access to all key business systems.
Unavailability of telecommunications services leads to disclosure of information to unauthorized parties.	---
Unavailability of telecommunications services leads to modification of information on a system.	---
Unavailability of telecommunications services leads to loss or destruction of information on a system.	---
Unavailability of telecommunications services leads to interruption of access to a system.	The unavailability of the telecommunications link prevents access to a key business system located at a remote site.



\* Blank lines indicate unusual or extremely rare possibilities.

Description	Example*
Problems with services provided by third parties (e.g., maintenance of systems) lead to disclosure of information to unauthorized parties.	A staff member from a third-party service provider views confidential information on a key business system that is maintained by that service provider.
Problems with services provided by third parties (e.g., maintenance of systems) lead to modification of information on a system.	Problems at a third-party service provider lead to the modification of information on a key business system located at that provider's site and maintained by the provider.
Problems with services provided by third parties (e.g., maintenance of systems) lead to loss or destruction of information on a system.	Problems at a third-party service provider lead to the destruction of information on a key business system located at that provider's site and maintained by the provider.
Problems with services provided by third parties (e.g., maintenance of systems) lead to interruption of access to a system.	A system maintained by a third-party service provider and located at the provider's site is unavailable due to problems created by that provider's staff.
Natural disasters (e.g., flood, fire, tornado) lead to disclosure of information to unauthorized parties.	People at the site of a tornado see confidential memos that are dispersed among the debris.
Natural disasters (e.g., flood, fire, tornado) lead to modification of information.	---
Natural disasters (e.g., flood, fire, tornado) lead to loss or destruction of information.	The flooding of a basement area destroys paper records that are stored there.
Natural disasters (e.g., flood, fire, tornado) lead to interruption of access to a system.	The flooding of a computer room in the basement of a building prevents access to systems in that room.

Other Problems (cont.)		
Asset	Actor	Outcome
		disclosure
	physical configuration or arrangement of buildings, offices, or equipment	modification
		loss, destruction
		interruption
		disclosure
		modification
[ ]		loss, destruction
		interruption

\* Blank lines indicate unusual or extremely rare possibilities.

Description	Example*
The physical configuration or arrangement of buildings, offices, or equipment leads to disclosure of information to unauthorized parties.	The layout of an office workspace enables anyone in the area to view customer credit card information displayed on computer screens.
The physical configuration or arrangement of buildings, offices, or equipment leads to modification of information on a system.	---
The physical configuration or arrangement of buildings, offices, or equipment leads to loss or destruction of information on a system.	---
The physical configuration or arrangement of buildings, offices, or equipment leads to interruption of access to a system.	---



<b>REPORT DOCUMENTATION PAGE</b>			<i>Form Approved</i> <i>OMB No. 0704-0188</i>	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. <b>AGENCY USE ONLY</b> (Leave Blank)	2. <b>REPORT DATE</b> January 2005	3. <b>REPORT TYPE AND DATES COVERED</b> Final		
4. <b>TITLE AND SUBTITLE</b> OCTAVE-S Implementation Guide, Version 1.0, Volume 5		5. <b>FUNDING NUMBERS</b> F19628-00-C-0003		
6. <b>AUTHOR(S)</b> Christopher Alberts, Audrey Dorofee, James Stevens, Carol Woody				
7. <b>PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)</b> Software Engineering Institute Carnegie Mellon University Pittsburgh, PA 15213		8. <b>PERFORMING ORGANIZATION REPORT NUMBER</b> CMU/SEI-2003-HB-003		
9. <b>SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)</b> HQ ESC/XPK 5 Eglin Street Hanscom AFB, MA 01731-2116		10. <b>SPONSORING/MONITORING AGENCY REPORT NUMBER</b>		
11. <b>SUPPLEMENTARY NOTES</b>				
12A <b>DISTRIBUTION/AVAILABILITY STATEMENT</b> Unclassified/Unlimited, DTIC, NTIS		12B <b>DISTRIBUTION CODE</b>		
13. <b>ABSTRACT (MAXIMUM 200 WORDS)</b> The Operationally Critical Threat, Asset, and Vulnerability Evaluation <sup>SM</sup> (OCTAVE <sup>®</sup> ) approach defines a risk-based strategic assessment and planning technique for security. OCTAVE is a self-directed approach, meaning that people from an organization assume responsibility for setting the organization's security strategy. OCTAVE-S is a variation of the approach tailored to the limited means and unique constraints typically found in small organizations (less than 100 people). OCTAVE-S is led by a small, interdisciplinary team (three to five people) of an organization's personnel who gather and analyze information, producing a protection strategy and mitigation plans based on the organization's unique operational security risks. To conduct OCTAVE-S effectively, the team must have broad knowledge of the organization's business and security processes, so it will be able to conduct all activities by itself.				
14. <b>SUBJECT TERMS</b> information security, risk management, OCTAVE		15. <b>NUMBER OF PAGES</b> 78		
16. <b>PRICE CODE</b>				
17. <b>SECURITY CLASSIFICATION OF REPORT</b> Unclassified	18. <b>SECURITY CLASSIFICATION OF THIS PAGE</b> Unclassified	19. <b>SECURITY CLASSIFICATION OF ABSTRACT</b> Unclassified	20. <b>LIMITATION OF ABSTRACT</b> UL	