

Function	Category	Subcategory	Informative References	Rating
	<b>Asset Management (ID.AM):</b> The data, personnel, devices, systems, and facilities that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	<b>ID.AM-1:</b> Physical devices and systems within the organization are inventoried	<ul style="list-style-type: none"> <li>• CIS CSC 1</li> <li>• COBIT 5 BAI09.01, BAI09.02</li> <li>• ISA 62443-2-1:2009 4.2.3.4</li> <li>• ISA 62443-3-3:2013 SR 7.8</li> <li>• ISO/IEC 27001:2013 A.8.1.1, A.8.1.2</li> <li>• NIST SP 800-53 Rev. 4 CM-8, PM-5</li> </ul>	1
		<b>ID.AM-2:</b> Software platforms and applications within the organization are inventoried	<ul style="list-style-type: none"> <li>• CIS CSC 2</li> <li>• COBIT 5 BAI09.01, BAI09.02, BAI09.05</li> <li>• ISA 62443-2-1:2009 4.2.3.4</li> <li>• ISA 62443-3-3:2013 SR 7.8</li> <li>• ISO/IEC 27001:2013 A.8.1.1, A.8.1.2, A.12.5.1</li> <li>• NIST SP 800-53 Rev. 4 CM-8, PM-5</li> </ul>	0,5
		<b>ID.AM-3:</b> Organizational communication and data flows are mapped	<ul style="list-style-type: none"> <li>• CIS CSC 12</li> <li>• COBIT 5 DSS05.02</li> <li>• ISA 62443-2-1:2009 4.2.3.4</li> <li>• ISO/IEC 27001:2013 A.13.2.1, A.13.2.2</li> <li>• NIST SP 800-53 Rev. 4 AC-4, CA-3, CA-9, PL-8</li> </ul>	1
		<b>ID.AM-4:</b> External information systems are catalogued	<ul style="list-style-type: none"> <li>• CIS CSC 12</li> <li>• COBIT 5 APO02.02, APO10.04, DSS01.02</li> <li>• ISO/IEC 27001:2013 A.11.2.6</li> <li>• NIST SP 800-53 Rev. 4 AC-20, SA-9</li> </ul>	N/D
		<b>ID.AM-5:</b> Resources (e.g., hardware, devices, data, time, personnel, and software) are prioritized based on their classification, criticality, and business value	<ul style="list-style-type: none"> <li>• CIS CSC 13, 14</li> <li>• COBIT 5 APO03.03, APO03.04, APO12.01, BAI04.02, BAI09.02</li> <li>• ISA 62443-2-1:2009 4.2.3.6</li> <li>• ISO/IEC 27001:2013 A.8.2.1</li> <li>• NIST SP 800-53 Rev. 4 CP-2, RA-2, SA-14, SC-6</li> </ul>	
		<b>ID.AM-6:</b> Cybersecurity roles and responsibilities for the entire workforce and third-party stakeholders (e.g., suppliers, customers, partners) are established	<ul style="list-style-type: none"> <li>• CIS CSC 17, 19</li> <li>• COBIT 5 APO01.02, APO07.06, APO13.01, DSS06.03</li> <li>• ISA 62443-2-1:2009 4.3.2.3.3</li> <li>• ISO/IEC 27001:2013 A.6.1.1</li> <li>• NIST SP 800-53 Rev. 4 CP-2, PS-7, PM-11</li> </ul>	
	<b>Business Environment (ID.BE):</b> The organization's mission, objectives, stakeholders, and activities are understood and prioritized; this information is used to inform cybersecurity roles, responsibilities, and risk management decisions.	<b>ID.BE-1:</b> The organization's role in the supply chain is identified and communicated	<ul style="list-style-type: none"> <li>• COBIT 5 APO08.01, APO08.04, APO08.05, APO10.03, APO10.04, APO10.05</li> <li>• ISO/IEC 27001:2013 A.15.1.1, A.15.1.2, A.15.1.3, A.15.2.1, A.15.2.2</li> <li>• NIST SP 800-53 Rev. 4 CP-2, SA-12</li> </ul>	N/D
		<b>ID.BE-2:</b> The organization's place in critical infrastructure and its industry sector is identified and communicated	<ul style="list-style-type: none"> <li>• COBIT 5 APO02.06, APO03.01</li> <li>• ISO/IEC 27001:2013 Clause 4.1</li> <li>• NIST SP 800-53 Rev. 4 PM-8</li> </ul>	
		<b>ID.BE-3:</b> Priorities for organizational mission, objectives, and activities are established and communicated	<ul style="list-style-type: none"> <li>• COBIT 5 APO02.01, APO02.06, APO03.01</li> <li>• ISA 62443-2-1:2009 4.2.2.1, 4.2.3.6</li> <li>• NIST SP 800-53 Rev. 4 PM-11, SA-14</li> </ul>	
		<b>ID.BE-4:</b> Dependencies and critical functions for delivery of critical services are established	<ul style="list-style-type: none"> <li>• COBIT 5 APO10.01, BAI04.02, BAI09.02</li> <li>• ISO/IEC 27001:2013 A.11.2.2, A.11.2.3, A.12.1.3</li> </ul>	

IDENTIFY (ID)		for delivery of critical services are established	<ul style="list-style-type: none"> <li>• NIST SP 800-53 Rev. 4 CP-8, PE-9, PE-11, PM-8, SA-14</li> </ul>	
		<b>ID.BE-5:</b> Resilience requirements to support delivery of critical services are established for all operating states (e.g. under duress/attack, during recovery, normal operations)	<ul style="list-style-type: none"> <li>• COBIT 5 BAI03.02, DSS04.02</li> <li>• ISO/IEC 27001:2013 A.11.1.4, A.17.1.1, A.17.1.2, A.17.2.1</li> <li>• NIST SP 800-53 Rev. 4 CP-2, CP-11, SA-13, SA-14</li> </ul>	
	<b>Governance (ID.GV):</b> The policies, procedures, and processes to manage and monitor the organization's regulatory, legal, risk, environmental, and operational requirements are understood and inform the management of cybersecurity risk.	<b>ID.GV-1:</b> Organizational cybersecurity policy is established and communicated	<ul style="list-style-type: none"> <li>• CIS CSC 19</li> <li>• COBIT 5 APO01.03, APO13.01, EDM01.01, EDM01.02</li> <li>• ISA 62443-2-1:2009 4.3.2.6</li> <li>• ISO/IEC 27001:2013 A.5.1.1</li> <li>• NIST SP 800-53 Rev. 4 -1 controls from all security control families</li> </ul>	0
		<b>ID.GV-2:</b> Cybersecurity roles and responsibilities are coordinated and aligned with internal roles and external partners	<ul style="list-style-type: none"> <li>• CIS CSC 19</li> <li>• COBIT 5 APO01.02, APO10.03, APO13.02, DSS05.04</li> <li>• ISA 62443-2-1:2009 4.3.2.3.3</li> <li>• ISO/IEC 27001:2013 A.6.1.1, A.7.2.1, A.15.1.1</li> <li>• NIST SP 800-53 Rev. 4 PS-7, PM-1, PM-2</li> </ul>	N/D
		<b>ID.GV-3:</b> Legal and regulatory requirements regarding cybersecurity, including privacy and civil liberties obligations, are understood and managed	<ul style="list-style-type: none"> <li>• CIS CSC 19</li> <li>• COBIT 5 BAI02.01, MEA03.01, MEA03.04</li> <li>• ISA 62443-2-1:2009 4.4.3.7</li> <li>• ISO/IEC 27001:2013 A.18.1.1, A.18.1.2, A.18.1.3, A.18.1.4, A.18.1.5</li> <li>• NIST SP 800-53 Rev. 4 -1 controls from all security control families</li> </ul>	0
		<b>ID.GV-4:</b> Governance and risk management processes address cybersecurity risks	<ul style="list-style-type: none"> <li>• COBIT 5 EDM03.02, APO12.02, APO12.05, DSS04.02</li> <li>• ISA 62443-2-1:2009 4.2.3.1, 4.2.3.3, 4.2.3.8, 4.2.3.9, 4.2.3.11, 4.3.2.4.3, 4.3.2.6.3</li> <li>• ISO/IEC 27001:2013 Clause 6</li> <li>• NIST SP 800-53 Rev. 4 SA-2, PM-3, PM-7, PM-9, PM-10, PM-11</li> </ul>	0
	<b>Risk Assessment (ID.RA):</b> The organization understands the cybersecurity risk to organizational operations (including mission, functions, image, or reputation), organizational assets, and individuals.	<b>ID.RA-1:</b> Asset vulnerabilities are identified and documented	<ul style="list-style-type: none"> <li>• CIS CSC 4</li> <li>• COBIT 5 APO12.01, APO12.02, APO12.03, APO12.04, DSS05.01, DSS05.02</li> <li>• ISA 62443-2-1:2009 4.2.3, 4.2.3.7, 4.2.3.9, 4.2.3.12</li> <li>• ISO/IEC 27001:2013 A.12.6.1, A.18.2.3</li> <li>• NIST SP 800-53 Rev. 4 CA-2, CA-7, CA-8, RA-3, RA-5, SA-5, SA-11, SI-2, SI-4, SI-5</li> </ul>	0,5
		<b>ID.RA-2:</b> Cyber threat intelligence is received from information sharing forums and sources	<ul style="list-style-type: none"> <li>• CIS CSC 4</li> <li>• COBIT 5 BAI08.01</li> <li>• ISA 62443-2-1:2009 4.2.3, 4.2.3.9, 4.2.3.12</li> <li>• ISO/IEC 27001:2013 A.6.1.4</li> <li>• NIST SP 800-53 Rev. 4 SI-5, PM-15, PM-16</li> </ul>	1
		<b>ID.RA-3:</b> Threats, both internal and external, are identified and documented	<ul style="list-style-type: none"> <li>• CIS CSC 4</li> <li>• COBIT 5 APO12.01, APO12.02, APO12.03, APO12.04</li> <li>• ISA 62443-2-1:2009 4.2.3, 4.2.3.9, 4.2.3.12</li> <li>• ISO/IEC 27001:2013 Clause 6.1.2</li> <li>• NIST SP 800-53 Rev. 4 RA-3, SI-5, PM-12, PM-16</li> </ul>	0,5
		<b>ID.RA-4:</b> Potential business impacts and likelihoods are identified	<ul style="list-style-type: none"> <li>• CIS CSC 4</li> <li>• COBIT 5 DSS04.02</li> <li>• ISA 62443-2-1:2009 4.2.3, 4.2.3.9, 4.2.3.12</li> <li>• ISO/IEC 27001:2013 A.16.1.6, Clause 6.1.2</li> <li>• NIST SP 800-53 Rev. 4 RA-2, RA-3, SA-14, PM-9, PM-11</li> </ul>	N/D

	<p><b>ID.RA-5:</b> Threats, vulnerabilities, likelihoods, and impacts are used to determine risk</p>	<ul style="list-style-type: none"> <li>• CIS CSC 4</li> <li>• COBIT 5 APO12.02</li> <li>• ISO/IEC 27001:2013 A.12.6.1</li> <li>• NIST SP 800-53 Rev. 4 RA-2, RA-3, PM-16</li> </ul>	0
	<p><b>ID.RA-6:</b> Risk responses are identified and prioritized</p>	<ul style="list-style-type: none"> <li>• CIS CSC 4</li> <li>• COBIT 5 APO12.05, APO13.02</li> <li>• ISO/IEC 27001:2013 Clause 6.1.3</li> <li>• NIST SP 800-53 Rev. 4 PM-4, PM-9</li> </ul>	0
<p><b>Risk Management Strategy (ID.RM):</b> The organization's priorities, constraints, risk tolerances, and assumptions are established and used to support operational risk decisions.</p>	<p><b>ID.RM-1:</b> Risk management processes are established, managed, and agreed to by organizational stakeholders</p>	<ul style="list-style-type: none"> <li>• CIS CSC 4</li> <li>• COBIT 5 APO12.04, APO12.05, APO13.02, BAI02.03, BAI04.02</li> <li>• ISA 62443-2-1:2009 4.3.4.2</li> <li>• ISO/IEC 27001:2013 Clause 6.1.3, Clause 8.3, Clause 9.3</li> <li>• NIST SP 800-53 Rev. 4 PM-9</li> </ul>	N/D
	<p><b>ID.RM-2:</b> Organizational risk tolerance is determined and clearly expressed</p>	<ul style="list-style-type: none"> <li>• COBIT 5 APO12.06</li> <li>• ISA 62443-2-1:2009 4.3.2.6.5</li> <li>• ISO/IEC 27001:2013 Clause 6.1.3, Clause 8.3</li> <li>• NIST SP 800-53 Rev. 4 PM-9</li> </ul>	
	<p><b>ID.RM-3:</b> The organization's determination of risk tolerance is informed by its role in critical infrastructure and sector specific risk analysis</p>	<ul style="list-style-type: none"> <li>• COBIT 5 APO12.02</li> <li>• ISO/IEC 27001:2013 Clause 6.1.3, Clause 8.3</li> <li>• NIST SP 800-53 Rev. 4 SA-14, PM-8, PM-9, PM-11</li> </ul>	
<p><b>Supply Chain Risk Management (ID.SC):</b> The organization's priorities, constraints, risk tolerances, and assumptions are established and used to support risk decisions associated with managing supply chain risk. The organization has established and implemented the processes to identify, assess and manage supply chain risks.</p>	<p><b>ID.SC-1:</b> Cyber supply chain risk management processes are identified, established, assessed, managed, and agreed to by organizational stakeholders</p>	<ul style="list-style-type: none"> <li>• CIS CSC 4</li> <li>• COBIT 5 APO10.01, APO10.04, APO12.04, APO12.05, APO13.02, BAI01.03, BAI02.03,</li> <li>• ISA 62443-2-1:2009 4.3.4.2</li> <li>• ISO/IEC 27001:2013 A.15.1.1, A.15.1.2, A.15.1.3, A.15.2.1, A.15.2.2</li> <li>• NIST SP 800-53 Rev. 4 SA-9, SA-12, PM-9</li> </ul>	N/D
	<p><b>ID.SC-2:</b> Suppliers and third party partners of information systems, components, and services are identified, prioritized, and assessed using a cyber supply chain risk assessment process</p>	<ul style="list-style-type: none"> <li>• COBIT 5 APO10.01, APO10.02, APO10.04, APO10.05, APO12.01, APO12.02, APO12.03,</li> <li>• ISA 62443-2-1:2009 4.2.3.1, 4.2.3.2, 4.2.3.3, 4.2.3.4, 4.2.3.6, 4.2.3.8, 4.2.3.9, 4.2.3.10,</li> <li>• ISO/IEC 27001:2013 A.15.2.1, A.15.2.2</li> <li>• NIST SP 800-53 Rev. 4 RA-2, RA-3, SA-12, SA-14, SA-15, PM-9</li> </ul>	
	<p><b>ID.SC-3:</b> Contracts with suppliers and third-party partners are used to implement appropriate measures designed to meet the objectives of an organization's cybersecurity program and Cyber Supply Chain Risk Management Plan</p>	<ul style="list-style-type: none"> <li>• COBIT 5 APO10.01, APO10.02, APO10.03, APO10.04, APO10.05</li> <li>• ISA 62443-2-1:2009 4.3.2.6.4, 4.3.2.6.7</li> <li>• ISO/IEC 27001:2013 A.15.1.1, A.15.1.2, A.15.1.3</li> <li>• NIST SP 800-53 Rev. 4 SA-9, SA-11, SA-12, PM-9</li> </ul>	
	<p><b>ID.SC-4:</b> Suppliers and third-party partners are routinely assessed using audits, test results, or other forms of evaluations to confirm they are meeting their contractual obligations.</p>	<ul style="list-style-type: none"> <li>• COBIT 5 APO10.01, APO10.03, APO10.04, APO10.05, MEA01.01, MEA01.02, MEA01.03,</li> <li>• ISA 62443-2-1:2009 4.3.2.6.7</li> <li>• ISA 62443-3-3:2013 SR 6.1</li> <li>• ISO/IEC 27001:2013 A.15.2.1, A.15.2.2</li> <li>• NIST SP 800-53 Rev. 4 AU-2, AU-6, AU-12, AU-16, PS-7, SA-9, SA-12</li> </ul>	
	<p><b>ID.SC-5:</b> Response and recovery planning and testing are conducted with suppliers and third-party providers</p>	<ul style="list-style-type: none"> <li>• CIS CSC 19, 20</li> <li>• COBIT 5 DSS04.04</li> <li>• ISA 62443-2-1:2009 4.3.2.5.7, 4.3.4.5.11</li> <li>• ISA 62443-3-3:2013 SR 2.8, SR 3.3, SR 6.1, SR 7.3, SR 7.4</li> <li>• ISO/IEC 27001:2013 A.17.1.3</li> </ul>	

		<ul style="list-style-type: none"> <li>• NIST SP 800-53 Rev. 4 CP-2, CP-4, IR-3, IR-4, IR-6, IR-8, IR-9</li> </ul>	
<p><b>Identity Management, Authentication and Access Control (PR.AC):</b> Access to physical and logical assets and associated facilities is limited to authorized users, processes, and devices, and is managed consistent with the assessed risk of unauthorized access to authorized activities and transactions.</p>	<p><b>PR.AC-1:</b> Identities and credentials are issued, managed, verified, revoked, and audited for authorized devices, users and processes</p>	<ul style="list-style-type: none"> <li>• CIS CSC 1, 5, 15, 16</li> <li>• COBIT 5 DSS05.04, DSS06.03</li> <li>• ISA 62443-2-1:2009 4.3.3.5.1</li> <li>• ISA 62443-3-3:2013 SR 1.1, SR 1.2, SR 1.3, SR 1.4, SR 1.5, SR 1.7, SR 1.8, SR 1.9</li> <li>• ISO/IEC 27001:2013 A.9.2.1, A.9.2.2, A.9.2.3, A.9.2.4, A.9.2.6, A.9.3.1, A.9.4.2, A.9.4.3</li> <li>• NIST SP 800-53 Rev. 4 AC-1, AC-2, IA-1, IA-2, IA-3, IA-4, IA-5, IA-6, IA-7, IA-8, IA-9,</li> </ul>	0,5
	<p><b>PR.AC-2:</b> Physical access to assets is managed and protected</p>	<ul style="list-style-type: none"> <li>• COBIT 5 DSS01.04, DSS05.05</li> <li>• ISA 62443-2-1:2009 4.3.3.3.2, 4.3.3.3.8</li> <li>• ISO/IEC 27001:2013 A.11.1.1, A.11.1.2, A.11.1.3, A.11.1.4, A.11.1.5, A.11.1.6, A.11.2.1, A.11.2.2, A.11.2.3, A.11.2.4, A.11.2.5, A.11.2.6, A.11.2.7, A.11.2.8, A.11.2.9, A.11.2.10, A.11.2.11, A.11.2.12, A.11.2.13, A.11.2.14, A.11.2.15, A.11.2.16, A.11.2.17, A.11.2.18, A.11.2.19, A.11.2.20, A.11.2.21, A.11.2.22, A.11.2.23, A.11.2.24, A.11.2.25, A.11.2.26, A.11.2.27, A.11.2.28, A.11.2.29, A.11.2.30, A.11.2.31, A.11.2.32, A.11.2.33, A.11.2.34, A.11.2.35, A.11.2.36, A.11.2.37, A.11.2.38, A.11.2.39, A.11.2.40, A.11.2.41, A.11.2.42, A.11.2.43, A.11.2.44, A.11.2.45, A.11.2.46, A.11.2.47, A.11.2.48, A.11.2.49, A.11.2.50, A.11.2.51, A.11.2.52, A.11.2.53, A.11.2.54, A.11.2.55, A.11.2.56, A.11.2.57, A.11.2.58, A.11.2.59, A.11.2.60, A.11.2.61, A.11.2.62, A.11.2.63, A.11.2.64, A.11.2.65, A.11.2.66, A.11.2.67, A.11.2.68, A.11.2.69, A.11.2.70, A.11.2.71, A.11.2.72, A.11.2.73, A.11.2.74, A.11.2.75, A.11.2.76, A.11.2.77, A.11.2.78, A.11.2.79, A.11.2.80, A.11.2.81, A.11.2.82, A.11.2.83, A.11.2.84, A.11.2.85, A.11.2.86, A.11.2.87, A.11.2.88, A.11.2.89, A.11.2.90, A.11.2.91, A.11.2.92, A.11.2.93, A.11.2.94, A.11.2.95, A.11.2.96, A.11.2.97, A.11.2.98, A.11.2.99, A.11.2.100</li> <li>• NIST SP 800-53 Rev. 4 PE-2, PE-3, PE-4, PE-5, PE-6, PE-8</li> </ul>	N/D
	<p><b>PR.AC-3:</b> Remote access is managed</p>	<ul style="list-style-type: none"> <li>• CIS CSC 12</li> <li>• COBIT 5 APO13.01, DSS01.04, DSS05.03</li> <li>• ISA 62443-2-1:2009 4.3.3.6.6</li> <li>• ISA 62443-3-3:2013 SR 1.13, SR 2.6</li> <li>• ISO/IEC 27001:2013 A.6.2.1, A.6.2.2, A.11.2.6, A.13.1.1, A.13.2.1</li> <li>• NIST SP 800-53 Rev. 4 AC-1, AC-17, AC-19, AC-20, SC-15</li> </ul>	1
	<p><b>PR.AC-4:</b> Access permissions and authorizations are managed, incorporating the principles of least privilege and separation of duties</p>	<ul style="list-style-type: none"> <li>• CIS CSC 3, 5, 12, 14, 15, 16, 18</li> <li>• COBIT 5 DSS05.04</li> <li>• ISA 62443-2-1:2009 4.3.3.7.3</li> <li>• ISA 62443-3-3:2013 SR 2.1</li> <li>• ISO/IEC 27001:2013 A.6.1.2, A.9.1.2, A.9.2.3, A.9.4.1, A.9.4.4, A.9.4.5</li> <li>• NIST SP 800-53 Rev. 4 AC-1, AC-2, AC-3, AC-5, AC-6, AC-14, AC-16, AC-24</li> </ul>	1
	<p><b>PR.AC-5:</b> Network integrity is protected (e.g., network segregation, network segmentation)</p>	<ul style="list-style-type: none"> <li>• CIS CSC 9, 14, 15, 18</li> <li>• COBIT 5 DSS01.05, DSS05.02</li> <li>• ISA 62443-2-1:2009 4.3.3.4</li> <li>• ISA 62443-3-3:2013 SR 3.1, SR 3.8</li> <li>• ISO/IEC 27001:2013 A.13.1.1, A.13.1.3, A.13.2.1, A.14.1.2, A.14.1.3</li> <li>• NIST SP 800-53 Rev. 4 AC-4, AC-10, SC-7</li> </ul>	1
	<p><b>PR.AC-6:</b> Identities are proofed and bound to credentials and asserted in interactions</p>	<ul style="list-style-type: none"> <li>• CIS CSC, 16</li> <li>• COBIT 5 DSS05.04, DSS05.05, DSS05.07, DSS06.03</li> <li>• ISA 62443-2-1:2009 4.3.3.2.2, 4.3.3.5.2, 4.3.3.7.2, 4.3.3.7.4</li> <li>• ISA 62443-3-3:2013 SR 1.1, SR 1.2, SR 1.4, SR 1.5, SR 1.9, SR 2.1</li> <li>• ISO/IEC 27001:2013, A.7.1.1, A.9.2.1</li> <li>• NIST SP 800-53 Rev. 4 AC-1, AC-2, AC-3, AC-16, AC-19, AC-24, IA-1, IA-2, IA-4, IA-5,</li> </ul>	0
	<p><b>PR.AC-7:</b> Users, devices, and other assets are authenticated (e.g., single-factor, multi-factor) commensurate with the risk of the transaction (e.g., individuals' security and privacy risks and other organizational risks)</p>	<ul style="list-style-type: none"> <li>• CIS CSC 1, 12, 15, 16</li> <li>• COBIT 5 DSS05.04, DSS05.10, DSS06.10</li> <li>• ISA 62443-2-1:2009 4.3.3.6.1, 4.3.3.6.2, 4.3.3.6.3, 4.3.3.6.4, 4.3.3.6.5, 4.3.3.6.6, 4.3.3.6.7, 4.3.3.6.8, 4.3.3.6.9, 4.3.3.6.10, 4.3.3.6.11, 4.3.3.6.12, 4.3.3.6.13, 4.3.3.6.14, 4.3.3.6.15, 4.3.3.6.16, 4.3.3.6.17, 4.3.3.6.18, 4.3.3.6.19, 4.3.3.6.20, 4.3.3.6.21, 4.3.3.6.22, 4.3.3.6.23, 4.3.3.6.24, 4.3.3.6.25, 4.3.3.6.26, 4.3.3.6.27, 4.3.3.6.28, 4.3.3.6.29, 4.3.3.6.30, 4.3.3.6.31, 4.3.3.6.32, 4.3.3.6.33, 4.3.3.6.34, 4.3.3.6.35, 4.3.3.6.36, 4.3.3.6.37, 4.3.3.6.38, 4.3.3.6.39, 4.3.3.6.40, 4.3.3.6.41, 4.3.3.6.42, 4.3.3.6.43, 4.3.3.6.44, 4.3.3.6.45, 4.3.3.6.46, 4.3.3.6.47, 4.3.3.6.48, 4.3.3.6.49, 4.3.3.6.50, 4.3.3.6.51, 4.3.3.6.52, 4.3.3.6.53, 4.3.3.6.54, 4.3.3.6.55, 4.3.3.6.56, 4.3.3.6.57, 4.3.3.6.58, 4.3.3.6.59, 4.3.3.6.60, 4.3.3.6.61, 4.3.3.6.62, 4.3.3.6.63, 4.3.3.6.64, 4.3.3.6.65, 4.3.3.6.66, 4.3.3.6.67, 4.3.3.6.68, 4.3.3.6.69, 4.3.3.6.70, 4.3.3.6.71, 4.3.3.6.72, 4.3.3.6.73, 4.3.3.6.74, 4.3.3.6.75, 4.3.3.6.76, 4.3.3.6.77, 4.3.3.6.78, 4.3.3.6.79, 4.3.3.6.80, 4.3.3.6.81, 4.3.3.6.82, 4.3.3.6.83, 4.3.3.6.84, 4.3.3.6.85, 4.3.3.6.86, 4.3.3.6.87, 4.3.3.6.88, 4.3.3.6.89, 4.3.3.6.90, 4.3.3.6.91, 4.3.3.6.92, 4.3.3.6.93, 4.3.3.6.94, 4.3.3.6.95, 4.3.3.6.96, 4.3.3.6.97, 4.3.3.6.98, 4.3.3.6.99, 4.3.3.6.100</li> <li>• ISA 62443-3-3:2013 SR 1.1, SR 1.2, SR 1.5, SR 1.7, SR 1.8, SR 1.9, SR 1.10</li> <li>• ISO/IEC 27001:2013 A.9.2.1, A.9.2.4, A.9.3.1, A.9.4.2, A.9.4.3, A.18.1.4</li> <li>• NIST SP 800-53 Rev. 4 AC-7, AC-8, AC-9, AC-11, AC-12, AC-14, IA-1, IA-2, IA-3, IA-4,</li> </ul>	1
		<ul style="list-style-type: none"> <li>• CIS CSC 17, 18</li> <li>• COBIT 5 APO07.03, BAI05.07</li> </ul>	

**Awareness and Training (PR.AT):** The organization's personnel and partners are provided cybersecurity awareness education and are trained to perform their cybersecurity-related duties and responsibilities consistent with related policies, procedures, and agreements.

<b>PR.AT-1:</b> All users are informed and trained	<ul style="list-style-type: none"> <li>• <b>ISA 62443-2-1:2009</b> 4.3.2.4.2</li> <li>• <b>ISO/IEC 27001:2013</b> A.7.2.2, A.12.2.1</li> <li>• <b>NIST SP 800-53 Rev. 4</b> AT-2, PM-13</li> </ul>	N/D
<b>PR.AT-2:</b> Privileged users understand their roles and responsibilities	<ul style="list-style-type: none"> <li>• <b>CIS CSC</b> 5, 17, 18</li> <li>• <b>COBIT 5</b> APO07.02, DSS05.04, DSS06.03</li> <li>• <b>ISA 62443-2-1:2009</b> 4.3.2.4.2, 4.3.2.4.3</li> <li>• <b>ISO/IEC 27001:2013</b> A.6.1.1, A.7.2.2</li> <li>• <b>NIST SP 800-53 Rev. 4</b> AT-3, PM-13</li> </ul>	
<b>PR.AT-3:</b> Third-party stakeholders (e.g., suppliers, customers, partners) understand their roles and responsibilities	<ul style="list-style-type: none"> <li>• <b>CIS CSC</b> 17</li> <li>• <b>COBIT 5</b> APO07.03, APO07.06, APO10.04, APO10.05</li> <li>• <b>ISA 62443-2-1:2009</b> 4.3.2.4.2</li> <li>• <b>ISO/IEC 27001:2013</b> A.6.1.1, A.7.2.1, A.7.2.2</li> <li>• <b>NIST SP 800-53 Rev. 4</b> PS-7, SA-9, SA-16</li> </ul>	
<b>PR.AT-4:</b> Senior executives understand their roles and responsibilities	<ul style="list-style-type: none"> <li>• <b>CIS CSC</b> 17, 19</li> <li>• <b>COBIT 5</b> EDM01.01, APO01.02, APO07.03</li> <li>• <b>ISA 62443-2-1:2009</b> 4.3.2.4.2</li> <li>• <b>ISO/IEC 27001:2013</b> A.6.1.1, A.7.2.2</li> <li>• <b>NIST SP 800-53 Rev. 4</b> AT-3, PM-13</li> </ul>	
<b>PR.AT-5:</b> Physical and cybersecurity personnel understand their roles and responsibilities	<ul style="list-style-type: none"> <li>• <b>CIS CSC</b> 17</li> <li>• <b>COBIT 5</b> APO07.03</li> <li>• <b>ISA 62443-2-1:2009</b> 4.3.2.4.2</li> <li>• <b>ISO/IEC 27001:2013</b> A.6.1.1, A.7.2.2</li> <li>• <b>NIST SP 800-53 Rev. 4</b> AT-3, IR-2, PM-13</li> </ul>	
<b>PR.DS-1:</b> Data-at-rest is protected	<ul style="list-style-type: none"> <li>• <b>CIS CSC</b> 13, 14</li> <li>• <b>COBIT 5</b> APO01.06, BAI02.01, BAI06.01, DSS04.07, DSS05.03, DSS06.06</li> <li>• <b>ISA 62443-3-3:2013</b> SR 3.4, SR 4.1</li> <li>• <b>ISO/IEC 27001:2013</b> A.8.2.3</li> <li>• <b>NIST SP 800-53 Rev. 4</b> MP-8, SC-12, SC-28</li> </ul>	1
<b>PR.DS-2:</b> Data-in-transit is protected	<ul style="list-style-type: none"> <li>• <b>CIS CSC</b> 13, 14</li> <li>• <b>COBIT 5</b> APO01.06, DSS05.02, DSS06.06</li> <li>• <b>ISA 62443-3-3:2013</b> SR 3.1, SR 3.8, SR 4.1, SR 4.2</li> <li>• <b>ISO/IEC 27001:2013</b> A.8.2.3, A.13.1.1, A.13.2.1, A.13.2.3, A.14.1.2, A.14.1.3</li> <li>• <b>NIST SP 800-53 Rev. 4</b> SC-8, SC-11, SC-12</li> </ul>	1
<b>PR.DS-3:</b> Assets are formally managed throughout removal, transfers, and disposition	<ul style="list-style-type: none"> <li>• <b>CIS CSC</b> 1</li> <li>• <b>COBIT 5</b> BAI09.03</li> <li>• <b>ISA 62443-2-1:2009</b> 4.3.3.3.9, 4.3.4.4.1</li> <li>• <b>ISA 62443-3-3:2013</b> SR 4.2</li> <li>• <b>ISO/IEC 27001:2013</b> A.8.2.3, A.8.3.1, A.8.3.2, A.8.3.3, A.11.2.5, A.11.2.7</li> <li>• <b>NIST SP 800-53 Rev. 4</b> CM-8, MP-6, PE-16</li> </ul>	0
<b>PR.DS-4:</b> Adequate capacity to ensure availability is maintained	<ul style="list-style-type: none"> <li>• <b>CIS CSC</b> 1, 2, 13</li> <li>• <b>COBIT 5</b> APO13.01, BAI04.04</li> <li>• <b>ISA 62443-3-3:2013</b> SR 7.1, SR 7.2</li> <li>• <b>ISO/IEC 27001:2013</b> A.12.1.3, A.17.2.1</li> </ul>	0,5

**Data Security (PR.DS):** Information and records (data) are managed consistent with the organization's risk strategy to protect the

PROTECT (PR)	confidentiality, integrity, and availability of information.		<ul style="list-style-type: none"> <li>• NIST SP 800-53 Rev. 4 AU-4, CP-2, SC-5</li> </ul>	
		PR.DS-5: Protections against data leaks are implemented	<ul style="list-style-type: none"> <li>• CIS CSC 13</li> <li>• COBIT 5 APO01.06, DSS05.04, DSS05.07, DSS06.02</li> <li>• ISA 62443-3-3:2013 SR 5.2</li> <li>• ISO/IEC 27001:2013 A.6.1.2, A.7.1.1, A.7.1.2, A.7.3.1, A.8.2.2, A.8.2.3, A.9.1.1, A.9.1.2, A.9.1.3, A.9.1.4, A.9.1.5, A.9.1.6, A.9.1.7, A.9.1.8, A.9.1.9, A.9.1.10, A.9.1.11, A.9.1.12, A.9.1.13, A.9.1.14, A.9.1.15, A.9.1.16, A.9.1.17, A.9.1.18, A.9.1.19, A.9.1.20, A.9.1.21, A.9.1.22, A.9.1.23, A.9.1.24, A.9.1.25, A.9.1.26, A.9.1.27, A.9.1.28, A.9.1.29, A.9.1.30, A.9.1.31, A.9.1.32, A.9.1.33, A.9.1.34, A.9.1.35, A.9.1.36, A.9.1.37, A.9.1.38, A.9.1.39, A.9.1.40, A.9.1.41, A.9.1.42, A.9.1.43, A.9.1.44, A.9.1.45, A.9.1.46, A.9.1.47, A.9.1.48, A.9.1.49, A.9.1.50, A.9.1.51, A.9.1.52, A.9.1.53, A.9.1.54, A.9.1.55, A.9.1.56, A.9.1.57, A.9.1.58, A.9.1.59, A.9.1.60, A.9.1.61, A.9.1.62, A.9.1.63, A.9.1.64, A.9.1.65, A.9.1.66, A.9.1.67, A.9.1.68, A.9.1.69, A.9.1.70, A.9.1.71, A.9.1.72, A.9.1.73, A.9.1.74, A.9.1.75, A.9.1.76, A.9.1.77, A.9.1.78, A.9.1.79, A.9.1.80, A.9.1.81, A.9.1.82, A.9.1.83, A.9.1.84, A.9.1.85, A.9.1.86, A.9.1.87, A.9.1.88, A.9.1.89, A.9.1.90, A.9.1.91, A.9.1.92, A.9.1.93, A.9.1.94, A.9.1.95, A.9.1.96, A.9.1.97, A.9.1.98, A.9.1.99, A.9.1.100</li> <li>• NIST SP 800-53 Rev. 4 AC-4, AC-5, AC-6, PE-19, PS-3, PS-6, SC-7, SC-8, SC-13, SC-31,</li> </ul>	1
		PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity	<ul style="list-style-type: none"> <li>• CIS CSC 2, 3</li> <li>• COBIT 5 APO01.06, BAI06.01, DSS06.02</li> <li>• ISA 62443-3-3:2013 SR 3.1, SR 3.3, SR 3.4, SR 3.8</li> <li>• ISO/IEC 27001:2013 A.12.2.1, A.12.5.1, A.14.1.2, A.14.1.3, A.14.2.4</li> <li>• NIST SP 800-53 Rev. 4 SC-16, SI-7</li> </ul>	0
		PR.DS-7: The development and testing environment(s) are separate from the production environment	<ul style="list-style-type: none"> <li>• CIS CSC 18, 20</li> <li>• COBIT 5 BAI03.08, BAI07.04</li> <li>• ISO/IEC 27001:2013 A.12.1.4</li> <li>• NIST SP 800-53 Rev. 4 CM-2</li> </ul>	0
		PR.DS-8: Integrity checking mechanisms are used to verify hardware integrity	<ul style="list-style-type: none"> <li>• COBIT 5 BAI03.05</li> <li>• ISA 62443-2-1:2009 4.3.4.4.4</li> <li>• ISO/IEC 27001:2013 A.11.2.4</li> <li>• NIST SP 800-53 Rev. 4 SA-10, SI-7</li> </ul>	0
		PR.IP-1: A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality)	<ul style="list-style-type: none"> <li>• CIS CSC 3, 9, 11</li> <li>• COBIT 5 BAI10.01, BAI10.02, BAI10.03, BAI10.05</li> <li>• ISA 62443-2-1:2009 4.3.4.3.2, 4.3.4.3.3</li> <li>• ISA 62443-3-3:2013 SR 7.6</li> <li>• ISO/IEC 27001:2013 A.12.1.2, A.12.5.1, A.12.6.2, A.14.2.2, A.14.2.3, A.14.2.4</li> <li>• NIST SP 800-53 Rev. 4 CM-2, CM-3, CM-4, CM-5, CM-6, CM-7, CM-9, SA-10</li> </ul>	0,5
		PR.IP-2: A System Development Life Cycle to manage systems is implemented	<ul style="list-style-type: none"> <li>• CIS CSC 18</li> <li>• COBIT 5 APO13.01, BAI03.01, BAI03.02, BAI03.03</li> <li>• ISA 62443-2-1:2009 4.3.4.3.3</li> <li>• ISO/IEC 27001:2013 A.6.1.5, A.14.1.1, A.14.2.1, A.14.2.5</li> <li>• NIST SP 800-53 Rev. 4 PL-8, SA-3, SA-4, SA-8, SA-10, SA-11, SA-12, SA-15, SA-17, SI-</li> </ul>	0
		PR.IP-3: Configuration change control processes are in place	<ul style="list-style-type: none"> <li>• CIS CSC 3, 11</li> <li>• COBIT 5 BAI01.06, BAI06.01</li> <li>• ISA 62443-2-1:2009 4.3.4.3.2, 4.3.4.3.3</li> <li>• ISA 62443-3-3:2013 SR 7.6</li> <li>• ISO/IEC 27001:2013 A.12.1.2, A.12.5.1, A.12.6.2, A.14.2.2, A.14.2.3, A.14.2.4</li> <li>• NIST SP 800-53 Rev. 4 CM-3, CM-4, SA-10</li> </ul>	0
		PR.IP-4: Backups of information are conducted, maintained, and tested	<ul style="list-style-type: none"> <li>• CIS CSC 10</li> <li>• COBIT 5 APO13.01, DSS01.01, DSS04.07</li> <li>• ISA 62443-2-1:2009 4.3.4.3.9</li> <li>• ISA 62443-3-3:2013 SR 7.3, SR 7.4</li> <li>• ISO/IEC 27001:2013 A.12.3.1, A.17.1.2, A.17.1.3, A.18.1.3</li> <li>• NIST SP 800-53 Rev. 4 CP-4, CP-6, CP-9</li> </ul>	0
		PR.IP-5: Information is protected from unauthorized access	<ul style="list-style-type: none"> <li>• COBIT 5 DSS01.04, DSS05.05</li> </ul>	

**Information Protection Processes and Procedures (PR.IP):** Security policies (that address purpose, scope, roles, responsibilities, management commitment, and coordination among organizational entities), processes, and procedures are maintained and used to manage protection of information systems and assets.

<b>PR.IP-5:</b> Policy and regulations regarding the physical operating environment for organizational assets are met	<ul style="list-style-type: none"><li>ISA 62443-2-1:2009 4.3.3.3.1 4.3.3.3.2, 4.3.3.3.3, 4.3.3.3.5, 4.3.3.3.6</li><li>ISO/IEC 27001:2013 A.11.1.4, A.11.2.1, A.11.2.2, A.11.2.3</li><li>NIST SP 800-53 Rev. 4 PE-10, PE-12, PE-13, PE-14, PE-15, PE-18</li></ul>	N/D
<b>PR.IP-6:</b> Data is destroyed according to policy	<ul style="list-style-type: none"><li>COBIT 5 BAI09.03, DSS05.06</li><li>ISA 62443-2-1:2009 4.3.4.4.4</li><li>ISA 62443-3-3:2013 SR 4.2</li><li>ISO/IEC 27001:2013 A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7</li><li>NIST SP 800-53 Rev. 4 MP-6</li></ul>	0
<b>PR.IP-7:</b> Protection processes are improved	<ul style="list-style-type: none"><li>COBIT 5 APO11.06, APO12.06, DSS04.05</li><li>ISA 62443-2-1:2009 4.4.3.1, 4.4.3.2, 4.4.3.3, 4.4.3.4, 4.4.3.5, 4.4.3.6, 4.4.3.7, 4.4.3.8</li><li>ISO/IEC 27001:2013 A.16.1.6, Clause 9, Clause 10</li><li>NIST SP 800-53 Rev. 4 CA-2, CA-7, CP-2, IR-8, PL-2, PM-6</li></ul>	0
<b>PR.IP-8:</b> Effectiveness of protection technologies is shared	<ul style="list-style-type: none"><li>COBIT 5 BAI08.04, DSS03.04</li><li>ISO/IEC 27001:2013 A.16.1.6</li><li>NIST SP 800-53 Rev. 4 AC-21, CA-7, SI-4</li></ul>	0
<b>PR.IP-9:</b> Response plans (Incident Response and Business Continuity) and recovery plans (Incident Recovery and Disaster Recovery) are in place and managed	<ul style="list-style-type: none"><li>CIS CSC 19</li><li>COBIT 5 APO12.06, DSS04.03</li><li>ISA 62443-2-1:2009 4.3.2.5.3, 4.3.4.5.1</li><li>ISO/IEC 27001:2013 A.16.1.1, A.17.1.1, A.17.1.2, A.17.1.3</li><li>NIST SP 800-53 Rev. 4 CP-2, CP-7, CP-12, CP-13, IR-7, IR-8, IR-9, PE-17</li></ul>	N/D
<b>PR.IP-10:</b> Response and recovery plans are tested	<ul style="list-style-type: none"><li>CIS CSC 19, 20</li><li>COBIT 5 DSS04.04</li><li>ISA 62443-2-1:2009 4.3.2.5.7, 4.3.4.5.11</li><li>ISA 62443-3-3:2013 SR 3.3</li><li>ISO/IEC 27001:2013 A.17.1.3</li><li>NIST SP 800-53 Rev. 4 CP-4, IR-3, PM-14</li></ul>	
<b>PR.IP-11:</b> Cybersecurity is included in human resources practices (e.g., deprovisioning, personnel screening)	<ul style="list-style-type: none"><li>CIS CSC 5, 16</li><li>COBIT 5 APO07.01, APO07.02, APO07.03, APO07.04, APO07.05</li><li>ISA 62443-2-1:2009 4.3.3.2.1, 4.3.3.2.2, 4.3.3.2.3</li><li>ISO/IEC 27001:2013 A.7.1.1, A.7.1.2, A.7.2.1, A.7.2.2, A.7.2.3, A.7.3.1, A.8.1.4</li><li>NIST SP 800-53 Rev. 4 PS-1, PS-2, PS-3, PS-4, PS-5, PS-6, PS-7, PS-8, SA-21</li></ul>	
<b>PR.IP-12:</b> A vulnerability management plan is developed and implemented	<ul style="list-style-type: none"><li>CIS CSC 4, 18, 20</li><li>COBIT 5 BAI03.10, DSS05.01, DSS05.02</li><li>ISO/IEC 27001:2013 A.12.6.1, A.14.2.3, A.16.1.3, A.18.2.2, A.18.2.3</li><li>NIST SP 800-53 Rev. 4 RA-3, RA-5, SI-2</li></ul>	
<b>PR.MA-1:</b> Maintenance and repair of organizational assets are performed and logged, with approved and controlled tools	<ul style="list-style-type: none"><li>COBIT 5 BAI03.10, BAI09.02, BAI09.03, DSS01.05</li><li>ISA 62443-2-1:2009 4.3.3.3.7</li><li>ISO/IEC 27001:2013 A.11.1.2, A.11.2.4, A.11.2.5, A.11.2.6</li><li>NIST SP 800-53 Rev. 4 MA-2, MA-3, MA-5, MA-6</li></ul>	N/D
<b>PR.MA-2:</b> Remote maintenance of organizational assets is approved, logged, and performed in a manner that prevents unauthorized access	<ul style="list-style-type: none"><li>CIS CSC 3, 5</li><li>COBIT 5 DSS05.04</li><li>ISA 62443-2-1:2009 4.3.3.6.5, 4.3.3.6.6, 4.3.3.6.7, 4.3.3.6.8</li><li>ISO/IEC 27001:2013 A.11.2.4, A.15.1.1, A.15.2.1</li></ul>	

Protective Technology (PR.PT): Technical security solutions are managed to ensure the security and resilience of systems and assets, consistent with related policies, procedures, and agreements.		<ul style="list-style-type: none"> <li>• NIST SP 800-53 Rev. 4 MA-4</li> </ul>	
	PR.PT-1: Audit/log records are determined, documented, implemented, and reviewed in accordance with policy	<ul style="list-style-type: none"> <li>• CIS CSC 1, 3, 5, 6, 14, 15, 16</li> <li>• COBIT 5 APO11.04, BAI03.05, DSS05.04, DSS05.07, MEA02.01</li> <li>• ISA 62443-2-1:2009 4.3.3.3.9, 4.3.3.5.8, 4.3.4.4.7, 4.4.2.1, 4.4.2.2, 4.4.2.4</li> <li>• ISA 62443-3-3:2013 SR 2.8, SR 2.9, SR 2.10, SR 2.11, SR 2.12</li> <li>• ISO/IEC 27001:2013 A.12.4.1, A.12.4.2, A.12.4.3, A.12.4.4, A.12.7.1</li> <li>• NIST SP 800-53 Rev. 4 AU Family</li> </ul>	N/D
	PR.PT-2: Removable media is protected and its use restricted according to policy	<ul style="list-style-type: none"> <li>• CIS CSC 8, 13</li> <li>• COBIT 5 APO13.01, DSS05.02, DSS05.06</li> <li>• ISA 62443-3-3:2013 SR 2.3</li> <li>• ISO/IEC 27001:2013 A.8.2.1, A.8.2.2, A.8.2.3, A.8.3.1, A.8.3.3, A.11.2.9</li> <li>• NIST SP 800-53 Rev. 4 MP-2, MP-3, MP-4, MP-5, MP-7, MP-8</li> </ul>	0
	PR.PT-3: The principle of least functionality is incorporated by configuring systems to provide only essential capabilities	<ul style="list-style-type: none"> <li>• CIS CSC 3, 11, 14</li> <li>• COBIT 5 DSS05.02, DSS05.05, DSS06.06</li> <li>• ISA 62443-2-1:2009 4.3.3.5.1, 4.3.3.5.2, 4.3.3.5.3, 4.3.3.5.4, 4.3.3.5.5, 4.3.3.5.6, 4.3.3.5.7,</li> <li>• ISA 62443-3-3:2013 SR 1.1, SR 1.2, SR 1.3, SR 1.4, SR 1.5, SR 1.6, SR 1.7, SR 1.8, SR 1.9,</li> <li>• ISO/IEC 27001:2013 A.9.1.2</li> <li>• NIST SP 800-53 Rev. 4 AC-3, CM-7</li> </ul>	0,5
	PR.PT-4: Communications and control networks are protected	<ul style="list-style-type: none"> <li>• CIS CSC 8, 12, 15</li> <li>• COBIT 5 DSS05.02, APO13.01</li> <li>• ISA 62443-3-3:2013 SR 3.1, SR 3.5, SR 3.8, SR 4.1, SR 4.3, SR 5.1, SR 5.2, SR 5.3, SR 7.1,</li> <li>• ISO/IEC 27001:2013 A.13.1.1, A.13.2.1, A.14.1.3</li> <li>• NIST SP 800-53 Rev. 4 AC-4, AC-17, AC-18, CP-8, SC-7, SC-19, SC-20, SC-21, SC-22, SC-</li> </ul>	1
	PR.PT-5: Mechanisms (e.g., failsafe, load balancing, hot swap) are implemented to achieve resilience requirements in normal and adverse situations	<ul style="list-style-type: none"> <li>• COBIT 5 BAI04.01, BAI04.02, BAI04.03, BAI04.04, BAI04.05, DSS01.05</li> <li>• ISA 62443-2-1:2009 4.3.2.5.2</li> <li>• ISA 62443-3-3:2013 SR 7.1, SR 7.2</li> <li>• ISO/IEC 27001:2013 A.17.1.2, A.17.2.1</li> <li>• NIST SP 800-53 Rev. 4 CP-7, CP-8, CP-11, CP-13, PL-8, SA-14, SC-6</li> </ul>	0
Anomalies and Events (DE.AE): Anomalous activity is detected and the potential impact of events is understood.	DE.AE-1: A baseline of network operations and expected data flows for users and systems is established and managed	<ul style="list-style-type: none"> <li>• CIS CSC 1, 4, 6, 12, 13, 15, 16</li> <li>• COBIT 5 DSS03.01</li> <li>• ISA 62443-2-1:2009 4.4.3.3</li> <li>• ISO/IEC 27001:2013 A.12.1.1, A.12.1.2, A.13.1.1, A.13.1.2</li> <li>• NIST SP 800-53 Rev. 4 AC-4, CA-3, CM-2, SI-4</li> </ul>	1
	DE.AE-2: Detected events are analyzed to understand attack targets and methods	<ul style="list-style-type: none"> <li>• CIS CSC 3, 6, 13, 15</li> <li>• COBIT 5 DSS05.07</li> <li>• ISA 62443-2-1:2009 4.3.4.5.6, 4.3.4.5.7, 4.3.4.5.8</li> <li>• ISA 62443-3-3:2013 SR 2.8, SR 2.9, SR 2.10, SR 2.11, SR 2.12, SR 3.9, SR 6.1, SR 6.2</li> <li>• ISO/IEC 27001:2013 A.12.4.1, A.16.1.1, A.16.1.4</li> <li>• NIST SP 800-53 Rev. 4 AU-6, CA-7, IR-4, SI-4</li> </ul>	0
	DE.AE-3: Event data are collected and correlated from multiple sources and sensors	<ul style="list-style-type: none"> <li>• CIS CSC 1, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16</li> <li>• COBIT 5 BAI08.02</li> <li>• ISA 62443-3-3:2013 SR 6.1</li> <li>• ISO/IEC 27001:2013 A.12.4.1, A.16.1.7</li> </ul>	



<b>DETECT (DE)</b>			<ul style="list-style-type: none"> <li>• NIST SP 800-53 Rev. 4 AU-6, CA-7, IR-4, IR-5, IR-8, SI-4</li> </ul>	N/D
		<b>DE.AE-4:</b> Impact of events is determined	<ul style="list-style-type: none"> <li>• CIS CSC 4, 6</li> <li>• COBIT 5 APO12.06, DSS03.01</li> <li>• ISO/IEC 27001:2013 A.16.1.4</li> <li>• NIST SP 800-53 Rev. 4 CP-2, IR-4, RA-3, SI-4</li> </ul>	
		<b>DE.AE-5:</b> Incident alert thresholds are established	<ul style="list-style-type: none"> <li>• CIS CSC 6, 19</li> <li>• COBIT 5 APO12.06, DSS03.01</li> <li>• ISA 62443-2-1:2009 4.2.3.10</li> <li>• ISO/IEC 27001:2013 A.16.1.4</li> <li>• NIST SP 800-53 Rev. 4 IR-4, IR-5, IR-8</li> </ul>	
	<b>Security Continuous Monitoring (DE.CM):</b> The information system and assets are monitored to identify cybersecurity events and verify the effectiveness of protective measures.	<b>DE.CM-1:</b> The network is monitored to detect potential cybersecurity events	<ul style="list-style-type: none"> <li>• CIS CSC 1, 7, 8, 12, 13, 15, 16</li> <li>• COBIT 5 DSS01.03, DSS03.05, DSS05.07</li> <li>• ISA 62443-3-3:2013 SR 6.2</li> <li>• NIST SP 800-53 Rev. 4 AC-2, AU-12, CA-7, CM-3, SC-5, SC-7, SI-4</li> </ul>	0,5
		<b>DE.CM-2:</b> The physical environment is monitored to detect potential cybersecurity events	<ul style="list-style-type: none"> <li>• COBIT 5 DSS01.04, DSS01.05</li> <li>• ISA 62443-2-1:2009 4.3.3.3.8</li> <li>• ISO/IEC 27001:2013 A.11.1.1, A.11.1.2</li> <li>• NIST SP 800-53 Rev. 4 CA-7, PE-3, PE-6, PE-20</li> </ul>	N/D
		<b>DE.CM-3:</b> Personnel activity is monitored to detect potential cybersecurity events	<ul style="list-style-type: none"> <li>• CIS CSC 5, 7, 14, 16</li> <li>• COBIT 5 DSS05.07</li> <li>• ISA 62443-3-3:2013 SR 6.2</li> <li>• ISO/IEC 27001:2013 A.12.4.1, A.12.4.3</li> <li>• NIST SP 800-53 Rev. 4 AC-2, AU-12, AU-13, CA-7, CM-10, CM-11</li> </ul>	
		<b>DE.CM-4:</b> Malicious code is detected	<ul style="list-style-type: none"> <li>• CIS CSC 4, 7, 8, 12</li> <li>• COBIT 5 DSS05.01</li> <li>• ISA 62443-2-1:2009 4.3.4.3.8</li> <li>• ISA 62443-3-3:2013 SR 3.2</li> <li>• ISO/IEC 27001:2013 A.12.2.1</li> <li>• NIST SP 800-53 Rev. 4 SI-3, SI-8</li> </ul>	0,5
		<b>DE.CM-5:</b> Unauthorized mobile code is detected	<ul style="list-style-type: none"> <li>• CIS CSC 7, 8</li> <li>• COBIT 5 DSS05.01</li> <li>• ISA 62443-3-3:2013 SR 2.4</li> <li>• ISO/IEC 27001:2013 A.12.5.1, A.12.6.2</li> <li>• NIST SP 800-53 Rev. 4 SC-18, SI-4, SC-44</li> </ul>	N/D
		<b>DE.CM-6:</b> External service provider activity is monitored to detect potential cybersecurity events	<ul style="list-style-type: none"> <li>• COBIT 5 APO07.06, APO10.05</li> <li>• ISO/IEC 27001:2013 A.14.2.7, A.15.2.1</li> <li>• NIST SP 800-53 Rev. 4 CA-7, PS-7, SA-4, SA-9, SI-4</li> </ul>	0
		<b>DE.CM-7:</b> Monitoring for unauthorized personnel, connections, devices, and software is performed	<ul style="list-style-type: none"> <li>• CIS CSC 1, 2, 3, 5, 9, 12, 13, 15, 16</li> <li>• COBIT 5 DSS05.02, DSS05.05</li> <li>• ISO/IEC 27001:2013 A.12.4.1, A.14.2.7, A.15.2.1</li> <li>• NIST SP 800-53 Rev. 4 AU-12, CA-7, CM-3, CM-8, PE-3, PE-6, PE-20, SI-4</li> </ul>	0,5
			<ul style="list-style-type: none"> <li>• CIS CSC 4, 20</li> <li>• COBIT 5 BAI03.10, DSS05.01</li> </ul>	

		<b>DE.CM-8:</b> Vulnerability scans are performed	<ul style="list-style-type: none"> <li>ISA 62443-2-1:2009 4.2.3.1, 4.2.3.7</li> <li>ISO/IEC 27001:2013 A.12.6.1</li> <li>NIST SP 800-53 Rev. 4 RA-5</li> </ul>	0
	<b>Detection Processes (DE.DP):</b> Detection processes and procedures are maintained and tested to ensure awareness of anomalous events.	<b>DE.DP-1:</b> Roles and responsibilities for detection are well defined to ensure accountability	<ul style="list-style-type: none"> <li>CIS CSC 19</li> <li>COBIT 5 APO01.02, DSS05.01, DSS06.03</li> <li>ISA 62443-2-1:2009 4.4.3.1</li> <li>ISO/IEC 27001:2013 A.6.1.1, A.7.2.2</li> <li>NIST SP 800-53 Rev. 4 CA-2, CA-7, PM-14</li> </ul>	0
		<b>DE.DP-2:</b> Detection activities comply with all applicable requirements	<ul style="list-style-type: none"> <li>COBIT 5 DSS06.01, MEA03.03, MEA03.04</li> <li>ISA 62443-2-1:2009 4.4.3.2</li> <li>ISO/IEC 27001:2013 A.18.1.4, A.18.2.2, A.18.2.3</li> <li>NIST SP 800-53 Rev. 4 AC-25, CA-2, CA-7, SA-18, SI-4, PM-14</li> </ul>	N/D
		<b>DE.DP-3:</b> Detection processes are tested	<ul style="list-style-type: none"> <li>COBIT 5 APO13.02, DSS05.02</li> <li>ISA 62443-2-1:2009 4.4.3.2</li> <li>ISA 62443-3-3:2013 SR 3.3</li> <li>ISO/IEC 27001:2013 A.14.2.8</li> <li>NIST SP 800-53 Rev. 4 CA-2, CA-7, PE-3, SI-3, SI-4, PM-14</li> </ul>	0
		<b>DE.DP-4:</b> Event detection information is communicated	<ul style="list-style-type: none"> <li>CIS CSC 19</li> <li>COBIT 5 APO08.04, APO12.06, DSS02.05</li> <li>ISA 62443-2-1:2009 4.3.4.5.9</li> <li>ISA 62443-3-3:2013 SR 6.1</li> <li>ISO/IEC 27001:2013 A.16.1.2, A.16.1.3</li> <li>NIST SP 800-53 Rev. 4 AU-6, CA-2, CA-7, RA-5, SI-4</li> </ul>	0
		<b>DE.DP-5:</b> Detection processes are continuously improved	<ul style="list-style-type: none"> <li>COBIT 5 APO11.06, APO12.06, DSS04.05</li> <li>ISA 62443-2-1:2009 4.4.3.4</li> <li>ISO/IEC 27001:2013 A.16.1.6</li> <li>NIST SP 800-53 Rev. 4, CA-2, CA-7, PL-2, RA-5, SI-4, PM-14</li> </ul>	0
	<b>Response Planning (RS.RP):</b> Response processes and procedures are executed and maintained, to ensure response to detected cybersecurity incidents.	<b>RS.RP-1:</b> Response plan is executed during or after an incident	<ul style="list-style-type: none"> <li>CIS CSC 19</li> <li>COBIT 5 APO12.06, BAI01.10</li> <li>ISA 62443-2-1:2009 4.3.4.5.1</li> <li>ISO/IEC 27001:2013 A.16.1.5</li> <li>NIST SP 800-53 Rev. 4 CP-2, CP-10, IR-4, IR-8</li> </ul>	0
	<b>Communications (RS.CO):</b> Response	<b>RS.CO-1:</b> Personnel know their roles and order of operations when a response is needed	<ul style="list-style-type: none"> <li>CIS CSC 19</li> <li>COBIT 5 EDM03.02, APO01.02, APO12.03</li> <li>ISA 62443-2-1:2009 4.3.4.5.2, 4.3.4.5.3, 4.3.4.5.4</li> <li>ISO/IEC 27001:2013 A.6.1.1, A.7.2.2, A.16.1.1</li> <li>NIST SP 800-53 Rev. 4 CP-2, CP-3, IR-3, IR-8</li> </ul>	
		<b>RS.CO-2:</b> Incidents are reported consistent with established criteria	<ul style="list-style-type: none"> <li>CIS CSC 19</li> <li>COBIT 5 DSS01.03</li> <li>ISA 62443-2-1:2009 4.3.4.5.5</li> <li>ISO/IEC 27001:2013 A.6.1.3, A.16.1.2</li> <li>NIST SP 800-53 Rev. 4 AU-6, IR-6, IR-8</li> </ul>	
			<ul style="list-style-type: none"> <li>CIS CSC 19</li> </ul>	

RESPOND (RS)	<b>Communications (RS.CO):</b> response activities are coordinated with internal and external stakeholders (e.g. external support from law enforcement agencies).	<b>RS.CO-3:</b> Information is shared consistent with response plans	<ul style="list-style-type: none"> <li>• COBIT 5 DSS03.04</li> <li>• ISA 62443-2-1:2009 4.3.4.5.2</li> <li>• ISO/IEC 27001:2013 A.16.1.2, Clause 7.4, Clause 16.1.2</li> <li>• NIST SP 800-53 Rev. 4 CA-2, CA-7, CP-2, IR-4, IR-8, PE-6, RA-5, SI-4</li> </ul>	N/D
		<b>RS.CO-4:</b> Coordination with stakeholders occurs consistent with response plans	<ul style="list-style-type: none"> <li>• CIS CSC 19</li> <li>• COBIT 5 DSS03.04</li> <li>• ISA 62443-2-1:2009 4.3.4.5.5</li> <li>• ISO/IEC 27001:2013 Clause 7.4</li> <li>• NIST SP 800-53 Rev. 4 CP-2, IR-4, IR-8</li> </ul>	
		<b>RS.CO-5:</b> Voluntary information sharing occurs with external stakeholders to achieve broader cybersecurity situational awareness	<ul style="list-style-type: none"> <li>• CIS CSC 19</li> <li>• COBIT 5 BAI08.04</li> <li>• ISO/IEC 27001:2013 A.6.1.4</li> <li>• NIST SP 800-53 Rev. 4 SI-5, PM-15</li> </ul>	
	<b>Analysis (RS.AN):</b> Analysis is conducted to ensure effective response and support recovery activities.	<b>RS.AN-1:</b> Notifications from detection systems are investigated	<ul style="list-style-type: none"> <li>• CIS CSC 4, 6, 8, 19</li> <li>• COBIT 5 DSS02.04, DSS02.07</li> <li>• ISA 62443-2-1:2009 4.3.4.5.6, 4.3.4.5.7, 4.3.4.5.8</li> <li>• ISA 62443-3-3:2013 SR 6.1</li> <li>• ISO/IEC 27001:2013 A.12.4.1, A.12.4.3, A.16.1.5</li> <li>• NIST SP 800-53 Rev. 4 AU-6, CA-7, IR-4, IR-5, PE-6, SI-4</li> </ul>	N/D
		<b>RS.AN-2:</b> The impact of the incident is understood	<ul style="list-style-type: none"> <li>• COBIT 5 DSS02.02</li> <li>• ISA 62443-2-1:2009 4.3.4.5.6, 4.3.4.5.7, 4.3.4.5.8</li> <li>• ISO/IEC 27001:2013 A.16.1.4, A.16.1.6</li> <li>• NIST SP 800-53 Rev. 4 CP-2, IR-4</li> </ul>	
		<b>RS.AN-3:</b> Forensics are performed	<ul style="list-style-type: none"> <li>• COBIT 5 APO12.06, DSS03.02, DSS05.07</li> <li>• ISA 62443-3-3:2013 SR 2.8, SR 2.9, SR 2.10, SR 2.11, SR 2.12, SR 3.9, SR 6.1</li> <li>• ISO/IEC 27001:2013 A.16.1.7</li> <li>• NIST SP 800-53 Rev. 4 AU-7, IR-4</li> </ul>	
		<b>RS.AN-4:</b> Incidents are categorized consistent with response plans	<ul style="list-style-type: none"> <li>• CIS CSC 19</li> <li>• COBIT 5 DSS02.02</li> <li>• ISA 62443-2-1:2009 4.3.4.5.6</li> <li>• ISO/IEC 27001:2013 A.16.1.4</li> <li>• NIST SP 800-53 Rev. 4 CP-2, IR-4, IR-5, IR-8</li> </ul>	
		<b>RS.AN-5:</b> Processes are established to receive, analyze and respond to vulnerabilities disclosed to the organization from internal and external sources (e.g. internal testing, security bulletins, open security advisories)	<ul style="list-style-type: none"> <li>• CIS CSC 4, 19</li> <li>• COBIT 5 EDM03.02, DSS05.07</li> <li>• NIST SP 800-53 Rev. 4 SI-5, PM-15</li> </ul>	
		<b>RS.MI-1:</b> Incidents are contained	<ul style="list-style-type: none"> <li>• CIS CSC 19</li> <li>• COBIT 5 APO12.06</li> <li>• ISA 62443-2-1:2009 4.3.4.5.6</li> <li>• ISA 62443-3-3:2013 SR 5.1, SR 5.2, SR 5.4</li> <li>• ISO/IEC 27001:2013 A.12.2.1, A.16.1.5</li> <li>• NIST SP 800-53 Rev. 4 IR-4</li> </ul>	
	<b>Mitigation (RS.MI):</b> Activities are performed to prevent expansion of an event, mitigate its		<ul style="list-style-type: none"> <li>• CIS CSC 4, 19</li> <li>• COBIT 5 APO12.06</li> </ul>	

	effects, and resolve the incident.	<b>RS.MI-2:</b> Incidents are mitigated	<ul style="list-style-type: none"> <li>ISA 62443-2-1:2009 4.3.4.5.6, 4.3.4.5.10</li> <li>ISO/IEC 27001:2013 A.12.2.1, A.16.1.5</li> <li>NIST SP 800-53 Rev. 4 IR-4</li> </ul>	N/D
		<b>RS.MI-3:</b> Newly identified vulnerabilities are mitigated or documented as accepted risks	<ul style="list-style-type: none"> <li>CIS CSC 4</li> <li>COBIT 5 APO12.06</li> <li>ISO/IEC 27001:2013 A.12.6.1</li> <li>NIST SP 800-53 Rev. 4 CA-7, RA-3, RA-5</li> </ul>	
	<b>Improvements (RS.IM):</b> Organizational response activities are improved by incorporating lessons learned from current and previous detection/response activities.	<b>RS.IM-1:</b> Response plans incorporate lessons learned	<ul style="list-style-type: none"> <li>COBIT 5 BAI01.13</li> <li>ISA 62443-2-1:2009 4.3.4.5.10, 4.4.3.4</li> <li>ISO/IEC 27001:2013 A.16.1.6, Clause 10</li> <li>NIST SP 800-53 Rev. 4 CP-2, IR-4, IR-8</li> </ul>	
		<b>RS.IM-2:</b> Response strategies are updated	<ul style="list-style-type: none"> <li>COBIT 5 BAI01.13, DSS04.08</li> <li>ISO/IEC 27001:2013 A.16.1.6, Clause 10</li> <li>NIST SP 800-53 Rev. 4 CP-2, IR-4, IR-8</li> </ul>	
	<b>RECOVER (RC)</b>	<b>Recovery Planning (RC.RP):</b> Recovery processes and procedures are executed and maintained to ensure restoration of systems or assets affected by cybersecurity incidents.	<b>RC.RP-1:</b> Recovery plan is executed during or after a cybersecurity incident	N/D
		<b>Improvements (RC.IM):</b> Recovery planning and processes are improved by incorporating lessons learned into future activities.	<b>RC.IM-1:</b> Recovery plans incorporate lessons learned	
			<b>RC.IM-2:</b> Recovery strategies are updated	
		<b>Communications (RC.CO):</b> Restoration activities are coordinated with internal and external parties (e.g. coordinating centers, Internet Service Providers, owners of attacking systems, victims, other CSIRTs, and vendors).	<b>RC.CO-1:</b> Public relations are managed	
			<b>RC.CO-2:</b> Reputation is repaired after an incident	
			<b>RC.CO-3:</b> Recovery activities are communicated to internal and external stakeholders as well as executive and management teams	

Nasze punkty: 17  
 Ile kontroli nas dotyczyło: 48  
 Ile kontroli nas nie dotyczyło: 60  
 W sumie: 108