Glossary of Cyber Security Terms



Cyber security is not always easy to understand because it is a constantly changing, complex problem and it is a factor at every point in a system's or device's life cycle. As systems become more complex, successful cyber attacks are increasing and there is renewed focus on security. As you look to protect your system, equipment, assets, or IP, here are some cyber security terms and definitions commonly used in connected systems.

| Term | Definition | Source |
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| AES | A U.S. government-approved cryptographic algorithm that can be used to protect electronic data. The AES algorithm is a symmetric block cipher that can encrypt (encipher) and decrypt (decipher) information. | NIST CSRC Glossary |
| Attestation | Issue of a statement, based on a decision that fulfillment of specified requirements has been demonstrated. Applied to security: A cryptographic measurement (measured boot) of the platform from power on to a functional trusted platform. This attestation measurement provides proof that the platform is trusted and will perform its intended function as intended. | ISO/IEC 29109-1:2009 (First sentence only) |
| Authentication | Provision of assurance that a claimed characteristic of an entity is correct. | ISO/IEC 27000:2016 |
| Availability | Property of being accessible and usable upon demand by an authorized entity. | ISO/IEC 27000:2016 |
| Confidentiality | Property that information is not made available or disclosed to unauthorized individuals, entities, or processes. | ISO/IEC 27000:2016 |
| Countermeasure | Action, device, procedure, technique, or other measure that is designed to minimize vulnerability. | ISO/IEC 2382:2015 |
| Credential | Evidence or testimonials that support a claim of identity or assertion of an attribute and usually are intended to be used more than once. | CNSSI 4009 |
| Cryptography | Discipline that embodies principles, means, and mechanisms for the transformation of data in order to hide its information content, prevent its undetected modification, and/or prevent its unauthorized use. | ISO/IEC 18014-2:2009 |
| Data at Rest | Stored data that is neither being processed nor transferred. | IIC |
| Data in Motion | Data being transferred from one location to another. | ISO/IEC 27040:2015 |
| Data in Use | Data being processed. | IIC |
| Data Integrity | Property that data has not been altered or destroyed in an unauthorized manner. | ISO/IEC 27040:2015 |
| Denial of Service (DOS) | Prevention of authorized access to resources or the delaying of time-critical operations. | ISO/IEC 27033-1:2015 |
| ECC | Elliptic curve cryptography, the public key cryptographic methods using operations in an elliptic curve group. ECC is based on the assumption that finding the discrete logarithm of a random elliptic curve element with respect to a publicly known base point is infeasible. | NIST CSRC Glossary (First sentence only) |
| Edge | Boundary between the pertinent digital and physical entities, as delineated by IoT devices. | IIC |
| Edge Computing | Distributed computing that is performed near the edge, where the proximity is determined by the system requirements. | IIC |
| Encryption | Reversible operation by a cryptographic algorithm converting data into cipher text so as to hide the information content of the data. | ISO/IEC 9798-1:2010 |
| Endpoint | The point where data is created or consumed. The beginning stage of a process or the end stage of the process. | |
| Endpoint Identity | Inherent property of an instance that distinguished it from all other instances. When applied to devices, it typically involves using stored secret and cryptographic authentication methods to validate that the device is in procession of the secret. | |
| Endpoint to Endpoint | The point from where data is created to the point where the data is consumed. When applied to communication, it is the sending of data from where it is created (point A) to the point where it is consumed (point B). It does not take into account how or what form the data flows from point A to point B, only the interaction between point A and point B. | |
| Entropy | The measurement of how random an event is. In security terms, number of bits of entropy is typically used to define the effective number of random bits used as the key for a cryptographic algorithm. | |

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| Hardware Root of Trust | Hardware root of trust (HW RoT) forms the basis for the security that is performing the security functions. This basis is rooted in immutable hardware providing cryptographically protected functions. Typical protections include cryptographically strong validation of mutable elements for authentication, integrity, identity, attestation, tamper resistance, and protection of security sensitive data with a well-defined boundary. | |
| Identity | Inherent property of an instance that distinguishes it from all other instances. | ISO/IEC/IEEE 31320-2:2012 |
| Identity Authentication | Formalized process of identity verification that, if successful, results in an authenticated identity for an entity. | ISO/IEC 24760-1:2011 |
| Identity Verification | Process to determine that presented identity information associated with a particular entity is applicable for the entity to be recognized in a particular identity domain at some point in time. | ISO/IEC 24760-1:2011 |
| Immutable Components | Immutable components are unchangable. Data that can only be written, not modified. For example, hardware mask or one time programmable (OTP). Note: some definitions allow cryptographically protected protection methods. | |
| Industrial Control System (ICS) | Combination of control components that act together to exercise control in the physical world. | IIC |
| Industrial Internet | Internet of Things, machines, computers, and people that enable intelligent industrial operations using advanced data analytics for transformational business outcomes. | IIC |
| Industrial Internet of Things (IIoT) System | System that connects and integrates industrial control systems with enterprise systems, business processes, and analytics. Note 1: industrial control systems contain sensors and actuators. Note 2: typically, these are large and complicated systems. | IIC |
| Information Technology (IT) | Entire spectrum of technologies for information processing, including software, hardware, communications technologies, and related services. Note: Although information technology (IT) technologies are used in operational technology (OT), information technology (IT) is traditionally considered to be distinct from operational technology (OT) due to a different set of requirements and concerns. | Gartner IT Glossary |
| Integrity | Property of accuracy and completeness. | ISO/IEC 27000:2016 |
| IoT Actuator | IoT device that can change a property of a physical entity in response to an input. | IIC |
| IoT Device | Endpoint that interacts with the physical world through sensing or actuating. | IIC |
| IoT Sensor | IoT device that observes properties of the physical world and converts them into a digital form. | IIC |
| IT/OT Convergence | Process of interweaving information technology (IT) and operational technology (OT) in order to create Industrial Internet of Things (IIoT) systems. | IIC |
| Key Store | See secure storage. | |
| Measured Boot | Attestation measurement of the mutable elements starting with the root of trust and sequenctially measuring all subsiquent executing modules provided evidence of the software running on the platform. | |
| Mutable | Mutable components are changeable. For example, firmware, software, configuration, calibration. | |
| Nonrepudiation | Ability to prove the occurrence of a claimed event or action and its originating entities. | ISO/IEC 27000:2016 |
| Operational Technology (OT) | Hardware and software that detects or causes a change through the direct monitoring and/or control of physical devices, processes, and events in the enterprise. | Gartner IT Glossary |
| Personally Identifiable Information (PII) | Any information that identifies or can be used to identify, contact, or locate the person to whom such information pertains, from which identification or contact information of an individual person can be derived, or that is or might be directly or indirectly linked to a natural person. | ISO/IEC 24745:2011 |
| Public Key Infrastructure (PKI) | Structure of hardware, software, people, processes, and policies that uses digital signature technology to provide relying parties with a verifiable association between the public component of an asymmetric key pair with a specific subject. | ISO 21091:2013 |
| Privacy | Right of individuals to control or influence what information related to them may be collected and stored and by whom and to whom that information may be disclosed. | ISO/TS 17574:2009 |
| Private Key | A cryptographic key that is kept secret and is used with a public key cryptographic algorithm. A private key is associated with a public key. | NIST CSRC Glossary |
| Programmable Logic Controller (PLC) | Electronic device designed for control of the logical sequence of events. | ISO 13577-4:2014 |
| Public Key | The public part of an asymmetric key pair that is typically used to verify signatures or encrypt data. | NIST CSRC Glossary |
| Random | Lacking a definite plan, purpose, or pattern. In security terms, a randomizer is typically used to create random numbers that are random sequences of 1s and 0s that are used as keys in cryptographic algorithms. | |
| Reliability | Ability of a system or component to perform its required functions under stated conditions for a specified period of time. | ISO/IEC 27040:2015 |
| Resilience | Ability of a system or component to maintain an acceptable level of service in the face of disruption. | IIC |
| Root of Trust | Root of trust (RoT) forms the basis of security functions such as endpoint identity and attestation of software and hardware identity and integrity. | IIC Endpoint Security Best Practices |

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| protected methods. Provides a protected location for storing security critical data and only allows access by authorized security functions. This is hybically implemented using an encryption key that encrypts all the security critical data prior to storage. Sometimes this is referred to as a secure key store. Security Security Controls Management, operational, and technical controls (that is, safeguards or countermeasures) prescribed for a information system to protect the confidentiality. Management, operational, and technical controls (that is, safeguards or countermeasures) prescribed for a information system to protect the confidentiality, integrity, and availability of the system and its information. Cryptographic algorithms together with modes of operation, such as block ciphers, stream ciphers, symmatric or asymmetric key algorithms, message authentication, and SSP generation and establishment all approved either by SOVIEC or an approved authority. Pulles directives, and practices that govern how assets, including sensitive information, are managed, portected, and distinuted within an organization and its systems, particularly those that impact the systems and associated elements. Secure Update Secure Update Secure Update assets and associated elements. Security Vulnerability Assessment Security Vulnerability Assessment A hash algorithm with the property that it is computationally infeasible 11 to find at message that corresponds to a given message digest, or 21 to find two different messages that corresponds to a given message digest, or 21 to find two different messages the system of interest. Trust is the probability that the intended behavior and the actual behavior are equivalent, given a fixed context, fixed environment, and fixed point in time. Trust is viewed as the level of confidence including safety, such as isolated execution, through the provision of objective evidence, that the requirements for a specific intended Security privacy, reliability, and reliability. This side the e | Secure Communications | cannot intercept or understand the data. Secure communications includes confidentiality and integrity of the data in transit. It is normally accomplished with a series of steps that include authentication to determine the identity of point A and point B, followed by encryption and integrity checks of the data | |
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| Vulnerability Weakness of an asset or security controls that can be exploited by one or more threats. ISO/IEC 27000:2016 | Verified Boot | | Trusted Computing Group |
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