

# Access Control Systems & Methodology

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Information Protection Requirements



# Access Control Definition

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- ❑ What are Access Controls?
- ❑ IS security options or features that control how, what access and what level of access user have to data, systems and physical assets.
- ❑ Protect systems, data and physical assets from unauthorized access.
- ❑ Physical Access controls covered in Physical Security Domain

# Access Control Goals

- Confidentiality
  - Protection from unauthorized access - disclosure
- Integrity
  - Protection from intentional or accidental change - alteration
- Availability
  - Protection from interruption or destruction





# Least Privilege

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- ❑ Limits on both users and processes to access only the needed resources and data
- ❑ Only the access need to perform their job function.
- ❑ This includes service accounts and programs.

# Granularity of Access Controls

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- ❑ How minute will the controls allow.
- ❑ Access Control by user or group
- ❑ Access Control by time
- ❑ Access Control from locations
- ❑ Access Control by actions

