

# Software Configuration Management

- Definitions
  - The discipline of identifying the configuration of a system at distinct points in time for the purpose of systematically controlling changes to the configuration and maintaining the integrity and traceability
  - IEEE610.12-90
    - A discipline applying technical and administrative direction and surveillance to: identify and document the functional and physical characteristics of a configuration item, control changes to those characteristics, record and report change processing and implementation status, and verify compliance with specified requirements.

# What are configuration items?

- Artifacts
  - Requirements documents
  - Source code
  - Test code
  - Meeting notes
  - Configuration files
  - Build scripts

# SCM Plan

- What configuration items will be under revision control?
- How will items be organized?
- Who has what responsibilities?
- Where will configuration items be stored?
- What tools will be used?
- How will changes be approved/rejected?

# Software Release Management

- Software development environment
  - Can we ensure everyone is using the same development environment?
- Software builds
  - How much can be automated?
- Software releases
  - Identifying, packaging, delivering the product