# Configuration Identification

## 📌 Definition

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

**Configuration Identification** is the process of **selecting, defining, and uniquely identifying all the Configuration Items (CIs)** in a project, along with their versions and relationships.

It answers the question:  
 👉 *“Which items should be controlled, and how do we uniquely recognize them?”*

## **🔑 Objectives**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

1. **Identify what needs to be controlled** → e.g., code files, test cases, requirement docs.
2. **Assign unique identifiers** → version numbers, IDs, or labels.
3. **Define relationships between items** → e.g., which test cases validate which requirements.
4. **Establish baselines** → fix approved versions of items.

## **📂 Activities in Configuration Identification**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

1. **Select Configuration Items (CIs)**
   * Example: Requirement docs, source code, test scripts, test environments.
2. **Define Naming Conventions & Labels**
   * Example: REQ-101, TC-Login-05, Build\_1.2.0.
3. **Version Control**
   * Assign version numbers: v1.0, v1.1, v2.0.
4. **Baseline Creation**
   * Mark stable versions as a reference point for development & testing.

## **📘 Example**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

For a **Hospital Management System** project:

* **CIs Identified:**
  + Requirements doc: HMS\_REQ\_v1.0
  + Design doc: HMS\_HLD\_v1.0
  + Test plan: HMS\_TP\_v1.0
  + Source code: PatientModule\_v1.2
  + Test case: TC\_Login\_OTP\_v1.0

Here, **Configuration Identification** ensures that all these items are **uniquely named, versioned, and traceable**.

## **🎯 Why Important?**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

* Avoids confusion (no duplicate or missing items).
* Ensures **traceability** from requirements → design → code → tests.
* Forms the **foundation of Configuration Management**.
* Supports **audit and compliance** (you know exactly which version was used).

✅ **In short:** **Configuration Identification** = The process of defining, selecting, and uniquely naming all project artifacts (CIs) so they can be controlled, versioned, and traced consistently.