

# Model Writer

Work Package 1 - Industrial Use Cases and Requirements

*Integration with Application Lifecycle Management tools*

*Dr. Eray TÜZÜN (HAVELSAN)*

# Requirement Work Item

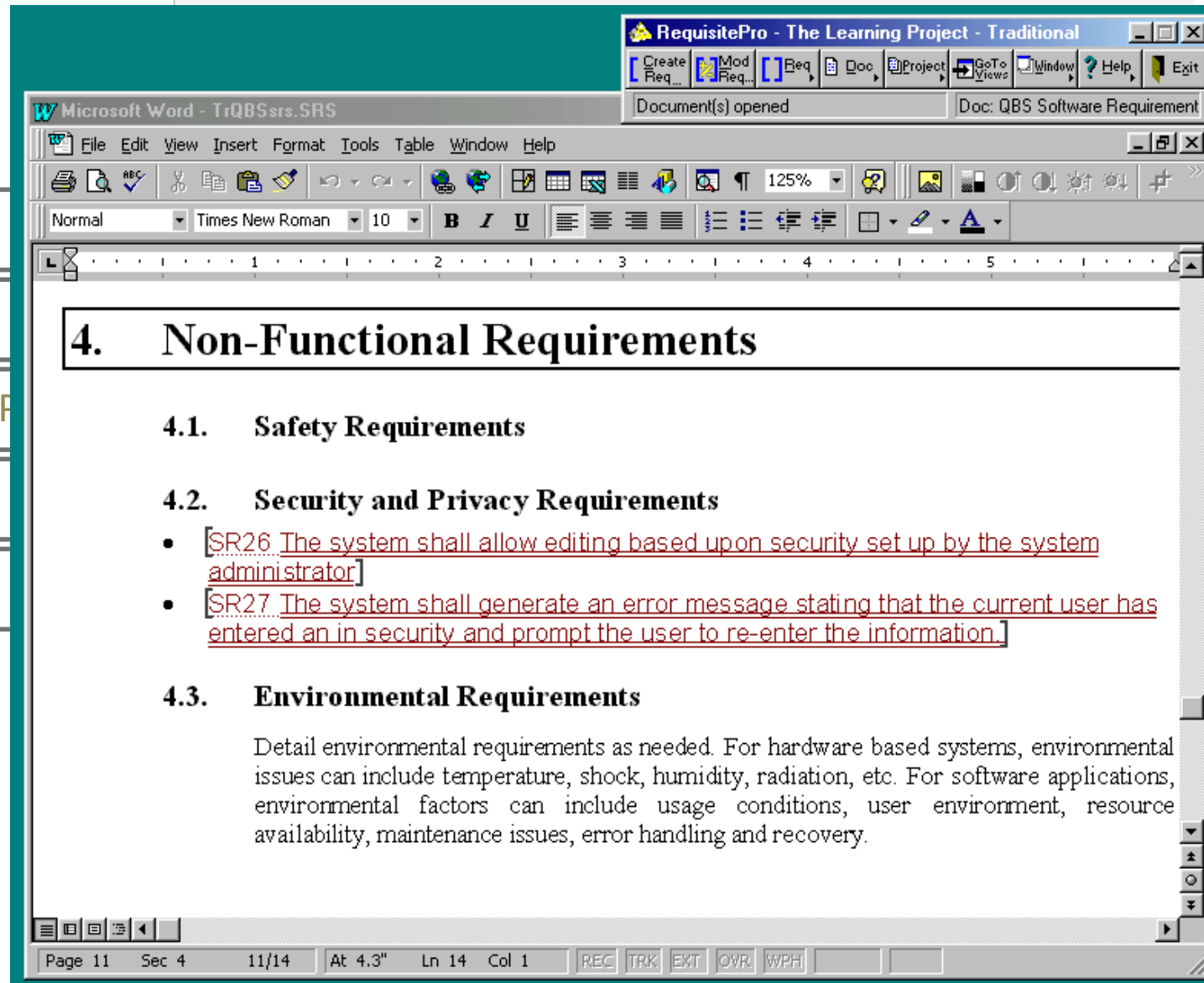
Customized Form

Attributes

WorkItem Number P

History

Discussion



The screenshot shows a Microsoft Word window with the title bar 'RequisitePro - The Learning Project - Traditional'. The menu bar includes File, Edit, View, Insert, Format, Tools, Table, Window, and Help. The toolbar shows various editing and formatting tools. The document content is as follows:

## 4. Non-Functional Requirements

### 4.1. Safety Requirements

### 4.2. Security and Privacy Requirements

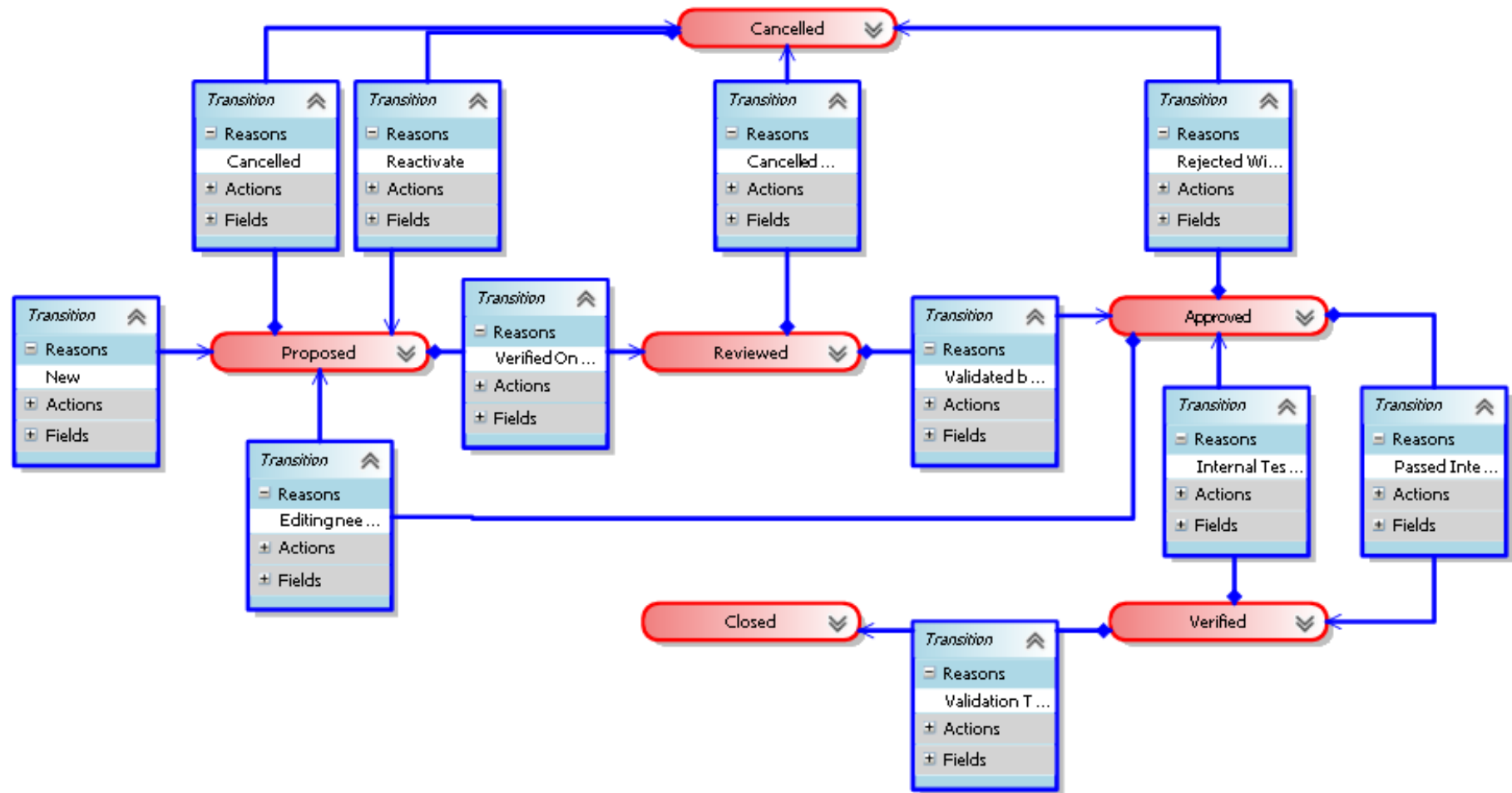
- [SR26 The system shall allow editing based upon security set up by the system administrator]
- [SR27 The system shall generate an error message stating that the current user has entered an in security and prompt the user to re-enter the information.]

### 4.3. Environmental Requirements

Detail environmental requirements as needed. For hardware based systems, environmental issues can include temperature, shock, humidity, radiation, etc. For software applications, environmental factors can include usage conditions, user environment, resource availability, maintenance issues, error handling and recovery.

The status bar at the bottom shows: Page 11, Sec 4, 11/14, At 4.3" Ln 14 Col 1, and a row of buttons: REC, TRK, EXT, OVR, WPH.

# Requirement LifeCycle

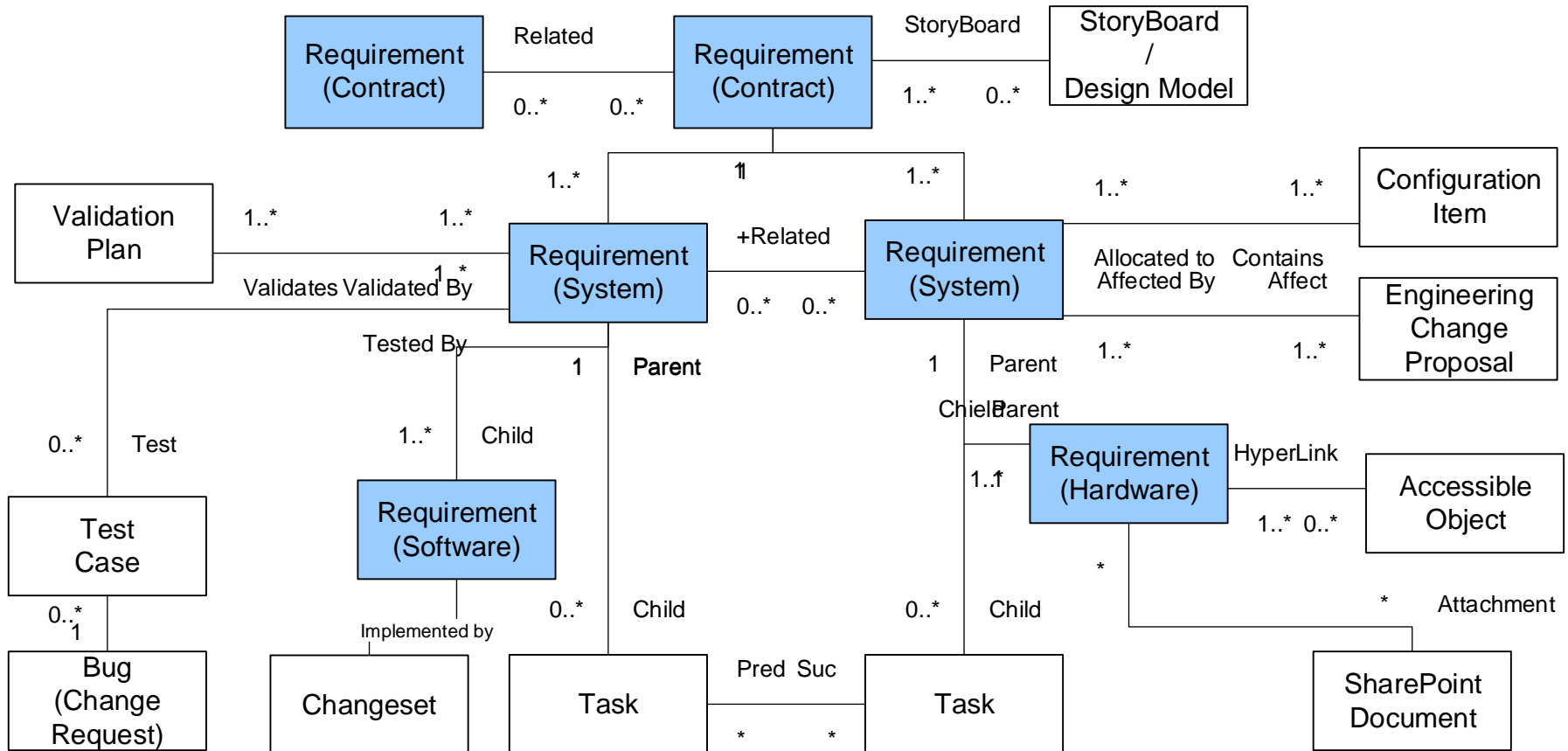


## Requirements in ALM

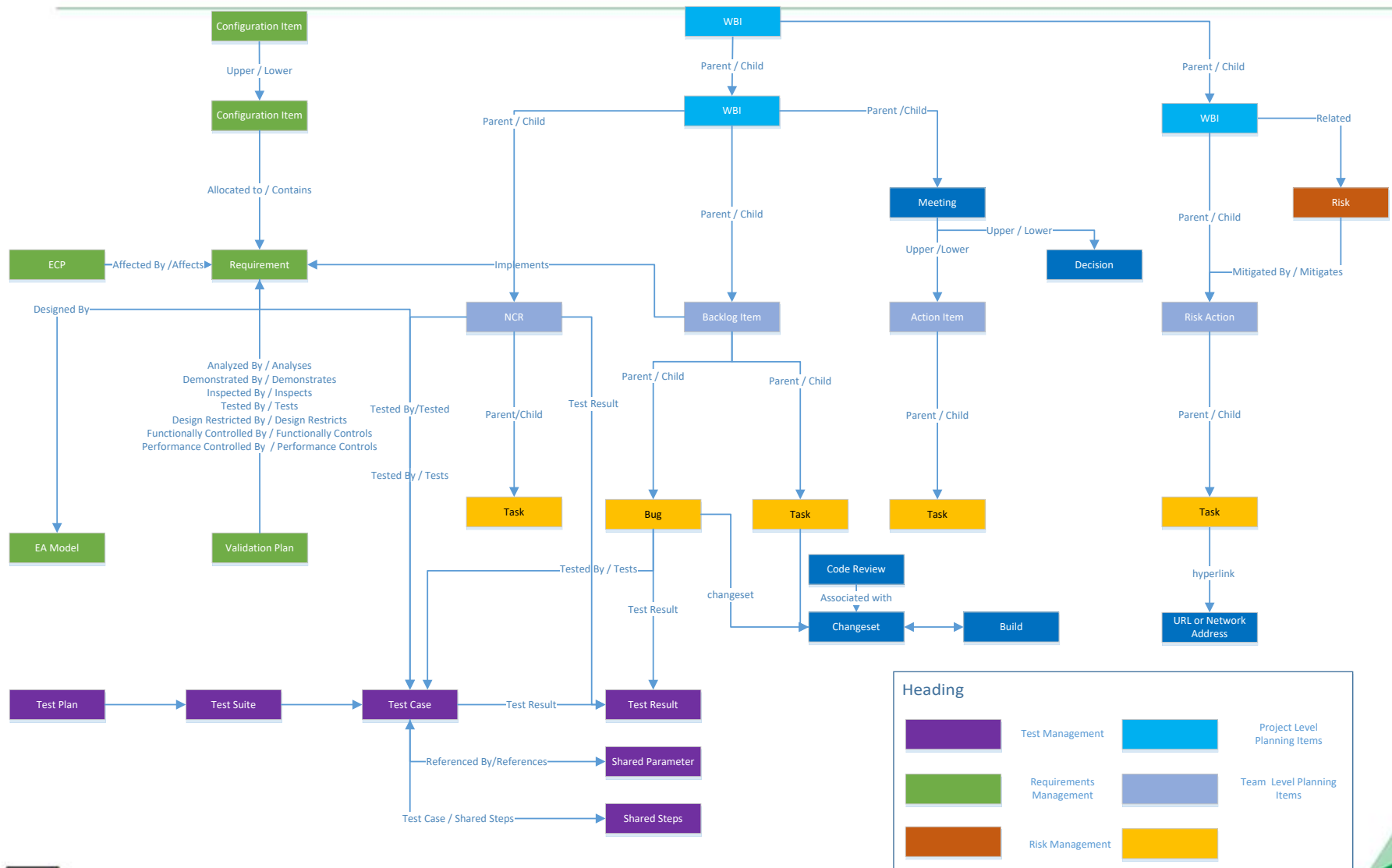
---

- Traceability with other artifacts is key
  - Requirements to other requirements
    - Customer/System/Software/Hardware..
    - Dependency relation between requirements
  - Requirements to tasks (Project management)
  - Requirements to Test Cases
  - Requirements to Design elements
  - Requirements to generated documents
  - Requirements to source code
  - Requirements to Build
  - Requirements to bugs
  - Requirements to risks
  - ...

# Requirements Traceability



# Requirements in ALM



# Usage Data

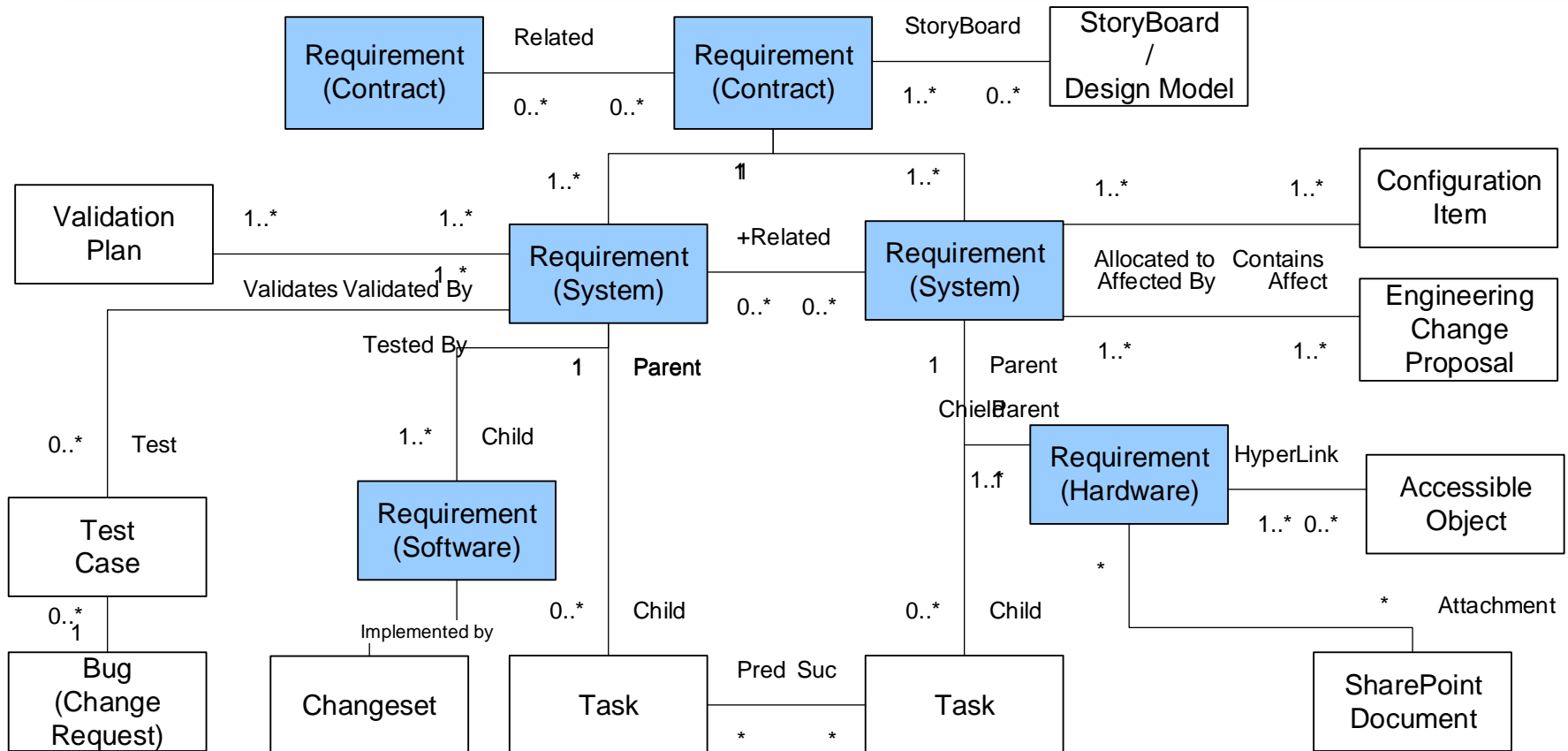
Organization Data	Value
# of Projects	90
# of Users	700

	Value
# of Work Items	87.456
# of Work Item Revisions	471.560
# of files in Source Control	548.624
# of files' revisions in Source Control	1.054.647
# of Builds	13.732

Work Item Details	Value
Requirement	34.794
Task	37.636
Backlogs	5.503
Test Case	1.052
Bugs	6.036
Other	2.435

As of 2016 September

# Use Case: Scenario 1



**Scenario1** : Reasoning about traceability among ALM artifacts using MW



# Use Case: Scenario 2

