

# Information Need Summary Report

## Requirements Progress

- Description:** This information need contains a series of graphs to manage the progress for requirements of delivered software items.
- Plan:** When planning requirements, you should develop plan lines based on past historical data for the the same or similar development approaches. You should create plan lines for requirements growth that correspond to the resources and schedule. You should develop a plan for all types of requirements
- Monitor:** Managers should review this IN to verify that the number of requirements at each interval is within acceptable limits to the plan. You should review each graph and indicator status to detect variations from the established plan. Requirements progress should be monitored regularly, preferably no less
- Control:** When changing the plan for this IN, you must address three primary areas: scope, schedule and quality. For example, if you add scope (ie requirements) to your project, you will need to assess how the affects schedule and quality. Also, changes in this IN require you to review other softwate
- Policy:** (enter organizational policies here)
- Standard:** SEI Capability Maturity Model Integrated v1.2  
ISO 12207 - Software Life-Cycle Processes  
IEEE 1233-1996: System Requirements Specifications

### Graph: Requirements Growth

**Type:** Run Graph

**Frequency:** Schedule Based

**Description:** This graph displays the actual and planned requirements growth. It calculates the percentage of plan which triggers the growth alarm.

**Series:** Total Growth      **Type:** Data      **Source:** Single Series Query - Requirements - Total Requirements

### Graph: Requirements Approval Status

**Type:** Run Graph

**Frequency:** Schedule Based

**Description:** To use this graph you need to configure (or modify) a DOORS interface (on Collection tab) to collect an appropriate DOORS attribute. You should then un-check the ?Do not propagate to

**Series:** MultiSeries Holder      **Type:** Data      **Source:** Multi-Series Query - Requirements - Requirement Approval Status

### Graph: Requirements Allocation

**Type:** Run Graph

**Frequency:** Schedule Based

**Description:** To use this graph you need to configure (or modify) a DOORS interface (on Collection tab) to collect an appropriate DOORS attribute. You should then un-check the ?Do not propagate to

**Series:** MultiSeries Holder      **Type:** Data      **Source:** Multi-Series Query - Requirements - Requirement Allocation

### Graph: Requirements Object Type

**Type:** Vertical Bar

**Frequency:** Schedule Based

**Description:** This graph displays the requirements object types: comments, headings and requirements.

**Series:** Requirements      **Type:** Data      **Source:** Single Series Query - Requirements - Object Type-Requirement

**Series:** Headings      **Type:** Data      **Source:** Single Series Query - Requirements - Object  
Type-Heading

**Series:** Comments      **Type:** Data      **Source:** Single Series Query - Requirements - Object  
Type-Comment

## Defect Productivity

Description: This information need contains a series of graphs to manage the productivity of defects from the delivered software items.

Plan:

Monitor:

Control:

Policy: (enter organizational policies here)

Standard: SEI CMMI  
IEEE 983 Quality Assurance Plans  
IEEE 1061 Software Quality Metrics Methodology

### Graph: CRs By State

Type: Vertical Bar

Frequency: Schedule Based

Description: This graph displays CRs by State depending on the states in the CR source data.

<b>Series:</b> Entered	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Num entered CRs
<b>Series:</b> In_review	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Num in_review CRs
<b>Series:</b> Assigned	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Num assigned CRs
<b>Series:</b> Resolved	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Num resolved CRs
<b>Series:</b> Concluded	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Num concluded CRs
<b>Series:</b> Obsolete	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Num obsolete CRs
<b>Series:</b> Deferred	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Num deferred CRs
<b>Series:</b> Conceded	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Num conceded CRs
<b>Series:</b> Probreject	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Num probreject CRs
<b>Series:</b> Duplicate	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Num duplicate CRs
<b>Series:</b> Need_more_info	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Num need_more_info CRs

### Graph: Defects Close Rate Graph

Type: Run Graph

Frequency: Schedule Based

Description: This graph displays the rate of closed versus open defects.

<b>Series:</b> New Defects Last Period	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - New CRs
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### Graph: Total Allocated Defects By Severity

Type: Vertical Bar

Frequency: Schedule Based

Description: This graph displays the allocation of Defects by severity, based on the severity of defects found in the data source.

<b>Series:</b> MultiSeries Holder	<b>Type:</b> Data	<b>Source:</b> Multi-Series Query	- Defects - Total Alloc Defects Severity
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### Graph: Percent Defects With Estimated Effort

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph tracks the number of defects that have been assigned an estimated effort.

**Series:** Number Defects With Estimate **Type:** Data **Source:** Single Series Query - Defects - Number Defects w Est Effort  
**Series:** Total Defects **Type:** Data **Source:** Single Series Query - Defects - Total Defects  
**Series:** Percent Estimated **Type:** Data **Source:** Equation - ((series("\Number Defects With Estimate"))/series("\Total Defects")) \*100

### Graph: Defect Implementation Rate

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph tracks how quickly defects are being implemented into the software.

**Series:** Total Estimated Defect Effort **Type:** Data **Source:** Single Series Query - Defects - Total Est Hours for Defects  
**Series:** Estimated Effort for Implemented **Type:** Data **Source:** Single Series Query - Defects - Est Hours for Implemented Defects  
**Series:** Elapsed Days in Phase **Type:** Data **Source:** Manual  
**Series:** Raw Days in Phase **Type:** Data **Source:** Manual

### Graph: Open vs. Closed CRs

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays open and closed CRs over time.

**Series:** Open **Type:** Data **Source:** Single Series Query - Defects - Open Defects  
**Series:** Closed **Type:** Data **Source:** Single Series Query - Defects - Closed Defects

### Graph: CR Close Rate

Type: Gauge  
Frequency: Schedule Based  
Description: This graph displays the close rate of change requests.

**Series:** Red **Type:** Region **Source:** Manual

### Graph: CR Close Rate Graph

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays the closed rate and new change requests rate over time.

**Series:** New CRs Last Period **Type:** Data **Source:** Single Series Query - Defects - New CRs

## Enhancement Productivity

Description: This information need contains a series of graphs to manage the productivity of enhancements from the delivered software items.

Plan:

Monitor:

Control:

Policy: (enter organizational policies here)

Standard: SEI CMMI  
IEEE 983 Quality Assurance Plans  
IEEE 1061 Software Quality Metrics Methodology

### Graph: Total Allocated ERs By Priority

Type: Vertical Bar

Frequency: Schedule Based

Description: This graph displays the allocation of ERs by Priority based on priorities stored in the data source.

**Series:** MultiSeries Holder      **Type:** Data      **Source:** Multi-Series Query - Defects - Total Alloc ERs Priority

### Graph: Percent ERs With Estimated Effort

Type: Run Graph

Frequency: Schedule Based

Description: This graph tracks the number of ERs that have been assigned an estimated effort.

**Series:** Number ERs With Estimate      **Type:** Data      **Source:** Equation      -

**Series:** Total ERs      **Type:** Data      **Source:** Equation      -

**Series:** Estimated Alarm      **Type:** Alarm      **Source:** Equation      - if((series("\Percent Estimated")>90),green,if((series("\Percent Estimated")>50),yellow,red))

### Graph: Estimated Effort Per Subsystem

Type: Run Graph

Frequency: Schedule Based

Description: This graph displays the estimated effort by subsystems based off of subsystems from the data source.

**Series:** MultiSeries Holder      **Type:** Data      **Source:** Multi-Series Query - Defects - Effort per Subsystem

## Defect Quality

Description:	This information need contains a series of graphs to manage the quality of delivered software items by tracking submitted defects.
Plan:	Defects quantify the number and types of defects in a product so that readiness and quality can be assessed. Open defects indicate the amount of work, or rework, remaining. Defect trends indicate overall process and product maturity.
Monitor:	The number of new defects found is directly related to the thoroughness and frequency of defect discover activities. Activities such as inspections, audits, and peer reviews should be conducted. High priority or error prone system components should be carefully tracked and analyzed.
Control:	Defect graphs are created to include appropriate targets. Low defect closure rates may be due to inadequate resources and rework directly affecting closure. Low discovery rates may indicate inadequate preparation time for reviews, inspections or audits, incorrectly performed processes, or
Policy:	(enter organizational policies here)
Standard:	SEI CMMI IEEE 983 Quality Assurance Plans IEEE 1061 Software Quality Metrics Methodology

### Graph: Defect Arrival Rate

Type:	Run Graph
Frequency:	Schedule Based
Description:	This graph displays the arrival rate of new defects. It graphs the trend of the various severities of defects, as well as the overall total. By default, the alarms are looking for Severe and Showstopper

<b>Series:</b>	MultiSeries Holder	<b>Type:</b>	Data	<b>Source:</b>	Multi-Series Query - Defects - New Defect Severity
<b>Series:</b>	Total New	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Defects - New Defects

### Graph: New Defects

Type:	Vertical Bar
Frequency:	Schedule Based
Description:	This graph displays New Defects by severity.

<b>Series:</b>	MultiSeries Holder	<b>Type:</b>	Data	<b>Source:</b>	Multi-Series Query - Defects - New Defect Severity
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### Graph: Defects By Phase Injected

Type:	Vertical Bar
Frequency:	Schedule Based
Description:	This graph displays the defects by their phase injected. The Phases display along the x-axis depending on phases from the data source.

<b>Series:</b>	MultiSeries Holder	<b>Type:</b>	Data	<b>Source:</b>	Multi-Series Query - Defects - Defects Injected
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### Graph: Open Defect Age- Showstopper

Type:	Run Graph
Frequency:	Schedule Based
Description:	This graph displays the aging of Showstopper open defects.

<b>Series:</b>	Showstopper 0 to 6	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Defects - Showstopper 0 to 6
<b>Series:</b>	Showstopper 7 to 29	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Defects - Showstopper 7 to 29
<b>Series:</b>	Showstopper 30 to 89	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Defects - Showstopper 30 to 89
<b>Series:</b>	Showstopper 90 or longer	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Defects - Showstopper 90 or longer

### Graph: Open Reported Defects

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays Open defects by severity over time.

**Series:** Medium      **Type:** Data      **Source:** Manual

### Graph: Open Defects

Type: Vertical Bar  
Frequency: Schedule Based  
Description: This graph displays Open defects by severity.

**Series:** MultiSeries Holder      **Type:** Data      **Source:** Multi-Series Query - Defects - Open Defects Severity

### Graph: Open Defect Age- Severe

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays the aging of Severe open defects.

**Series:** Severe 0 to 6      **Type:** Data      **Source:** Single Series Query - Defects - Severe 0 to 6  
**Series:** Severe 7 to 29      **Type:** Data      **Source:** Single Series Query - Defects - Severe 7 to 29  
**Series:** Severe 30 to 89      **Type:** Data      **Source:** Single Series Query - Defects - Severe 30 to 89  
**Series:** Severe 90 or longer      **Type:** Data      **Source:** Single Series Query - Defects - Severe 90 or longer

## Enhancement Quality

Description: This information need contains a series of graphs to manage the quality of delivered software items by tracking submitted enhancements.

Plan:

Monitor:

Control:

Policy: (enter organizational policies here)

Standard: SEI CMMI  
IEEE 983 Quality Assurance Plans  
IEEE 1061 Software Quality Metrics Methodology

### Graph: Open ERs

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays the count of open enhancement requests.

**Series:** MultiSeries Holder      **Type:** Data      **Source:** Multi-Series Query - Defects - Open ERs By Priority

### Graph: Open Allocated ERs

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays the allocation of all open enhancement requests, depending on allocations from the data source.

**Series:** Showstopper Alarm      **Type:** Alarm      **Source:** Equation - if((series("\Showstopper",0)>0),red,green)

**Series:** MultiSeries Holder      **Type:** Data      **Source:** Multi-Series Query - Defects - Open ERs Severity



## Defect Schedule

Description: This information need consists of a series of graphs to manage the schedule of defects being worked for delivered software items.

Plan:

Monitor:

Control:

Policy: (enter organizational policies here)

Standard: SEI CMMI  
IEEE 983 Quality Assurance Plans  
IEEE 1061 Software Quality Metrics Methodology

### Graph: Pct Phase Remaining Gauge

Type: Gauge

Frequency: Schedule Based

Description: This graph displays the days in phase, both elapsed and remaining. This is based on Phases within the unit.

<b>Series:</b> Days Elapsed	<b>Type:</b> Data	<b>Source:</b> Manual	
<b>Series:</b> Red	<b>Type:</b> Region	<b>Source:</b> Manual	
<b>Series:</b> Raw Days In Phase	<b>Type:</b> Data	<b>Source:</b> Manual	
<b>Series:</b> Raw Days Remaining	<b>Type:</b> Data	<b>Source:</b> Equation	- series("\Raw Days in Phase") -series("\Days Elapsed")
<b>Series:</b> Percent Remaining	<b>Type:</b> Data	<b>Source:</b> Equation	- if((series("\Raw Days Remaining")<0),0,(if((series("\Raw Days Remaining")>series("\Raw Days In Phase")),100,((series("\Raw Days Remaining")/series("\Raw Days In Phase"))*100))))

### Graph: Total Estimated Effort for Defects By Severity

Type: Vertical Bar

Frequency: Schedule Based

Description: This graph displays the total estimated effort for the defects based on the severity of the defects found in the data source.

<b>Series:</b> MultiSeries Holder	<b>Type:</b> Data	<b>Source:</b> Multi-Series Query	- Defects - Sum Est Defect Effort Severity
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### Graph: Total Estimated Hours

Type: Gauge

Frequency: Schedule Based

Description: This graph displays the total estimated hours of work for the defects on the project.

<b>Series:</b> Total Estimates for Allocated CRs	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Total Estimates of Allocated CRs
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## Enhancement Schedule

Description: This information need consists of a series of graphs to manage the schedule of enhancements being worked for delivered software items.

Plan:

Monitor:

Control:

Policy: (enter organizational policies here)

Standard: SEI CMMI  
IEEE 983 Quality Assurance Plans  
IEEE 1061 Software Quality Metrics Methodology

### Graph: Percent Phase Remaining

Type: Vertical Bar

Frequency: Schedule Based

Description: This graph displays the days in phase, both elapsed and remaining. This is based on Phases within the unit.

**Series:** Raw Days in Phase      **Type:** Data      **Source:** Equation      -

### Graph: Total Estimated Effort for ERs By Priority

Type: Vertical Bar

Frequency: Schedule Based

Description: This graph displays the total estimated effort to fix enhancements by their priority, based off of priority from the data source.

**Series:** MultiSeries Holder      **Type:** Data      **Source:** Multi-Series Query      - Defects - Sum Est ER Effort Priority

## Risk Management

Description:	This information need contains a series of graphs to manage risk of delivered software items.
Plan:	Risk management steps, for each risk, are based on the likelihood of occurrence and impact. Risk management steps can incur additional project cost, in terms of both resources and project duration. As a result, cost-benefit analysis should be used to evaluate when benefits, gained by the risk
Monitor:	This provides timely risk visibility and resolution. Incorporate techniques such as milestone tracking, tracking of top risks, guarding against new vulnerabilities from prior fixes, and continual risk reassessment. Insist that at any one point in time the program manager, the principal
Control:	Once the risks have been identified the next step is to resolve or reduce them. Techniques such as staffing decisions, cost/schedule estimates, quality-monitoring, evaluation of new technologies, prototyping, scrubbing requirements, benchmarking, and simulation/modeling are employed.
Policy:	(enter organizational policies here)
Standard:	IEEE 1540 Standard for Risk Management Risk Management Guide for DOD Acquisition (6th edition) SEI CMMI v1.2

### Graph: Risks by Status

Type:	Vertical Bar
Frequency:	Schedule Based
Description:	This graph displays the closed, open and new risk associated with software delivery.

<b>Series:</b>	New Risks	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Risk-New Risks
<b>Series:</b>	Open Risks	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Risk-Open Risks
<b>Series:</b>	Closed Risks	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Risk-Closed Risks

### Graph: Risk Status

Type:	Run Graph
Frequency:	Schedule Based
Description:	This graph displays the closed, open, new and total risk that must be managed for the software delivery. The risk alarm shows the status of risk as it rises or falls weekly.

<b>Series:</b>	New Risks	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Risk-New Risks
<b>Series:</b>	Total Risks	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Risk-Total Risks
<b>Series:</b>	Closed Risks	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Risk-Closed Risks

### Graph: Risk Cost

Type:	Run Graph
Frequency:	Schedule Based
Description:	This graph displays the actual and estimated cost of migration and the risk reserve.

<b>Series:</b>	Actual Cost of Mitigation	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Risk-Cost of Mitigation
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### Graph: Risks by Probability

Type:	Vertical Bar
Frequency:	Schedule Based
Description:	This graph displays a count of risks by probability, based on probabilities from the data source.

<b>Series:</b>	New Injected Risks	<b>Type:</b>	Data	<b>Source:</b>	Multi-Series Query - Risk-Risk by Probability
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### Graph: Active Risk Grid

Type: Snapshot Grid  
Frequency: Schedule Based  
Description: This grid displays the weekly active risk for software delivery.

**Series:** Actual      **Type:** Data      **Source:** Single Series Query - Risk-Active Risks (Snapshot)

### Graph: Total Risk Exposure

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays the risk exposure, risk cost versus risk budget.

**Series:** Risk Cost      **Type:** Data      **Source:** Single Series Query - Risk-Risk Cost

## Testing Execution

Description:	The Testing Execution Information Need contains graphs to manage the progress of the testing process and executions.
Plan:	The plan line models for testing progress should be determined based on projects of similar scope and development approach. You should develop a plan line for tests executed based on schedule and resources. Retest plan lines are best determined by previous projects and the scope of testing.
Monitor:	During the testing phase, you will want to closely monitor the progress of testing. Watch for values that fall outside of the range of predefined thresholds. Testing pass/fail rate is a crucial measure to watch, as is the number of tests executed to date.
Control:	If a value is outside of the predefined thresholds, first determine the cause of the deviance. If the tests executed to date are behind schedule, determine if enough resources have been allocated or if the plan for time to execute the tests was insufficient. If the pass/fail rate is unacceptable look to see (enter organizational policies here)
Policy:	(enter organizational policies here)
Standard:	SEI CMMI v1.2 ISO/IEC 12207: Software Lifecycle Processes IEEE 1008: Software Unit Testing

### Graph: Testing Progress

Type:	Run Graph
Frequency:	Schedule Based
Description:	This graph displays the test case executions, failures, and passes.

<b>Series:</b>	Test Case Executions	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Testing - Total Test Cases Executed
<b>Series:</b>	Test Cases Passed	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Testing - Total Passed Tests
<b>Series:</b>	Test Cases Failed	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Testing - Total Failed Tests
<b>Series:</b>	Total Test Cases	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Testing - Total Test Cases

### Graph: Test Executions by Status

Type:	Vertical Bar
Frequency:	Schedule Based
Description:	This graph displays test executions based by status, including passed, failed, and run more than once.

<b>Series:</b>	Passed Tests	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Testing - Total Passed Tests
<b>Series:</b>	Failed Tests	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Testing - Total Failed Tests
<b>Series:</b>	Number of Tests Run More Than Once	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Testing - Total Retests

### Graph: Retest Grid

Type:	Snapshot Grid
Frequency:	Schedule Based
Description:	This grid shows the retested test cases.

<b>Series:</b>	Actual	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Testing - Retests Grid
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### Graph: Time to Execute

Type:	Run Graph
Frequency:	Schedule Based
Description:	

<b>Series:</b>	Actual Time to Execute Automated Tests	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - Testing - Time to Execute Automated Tests
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### Graph: Retest Progress

Type: Run Graph

Frequency: Schedule Based

Description:

<b>Series:</b> Retest Executions	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Closed Defects
<b>Series:</b> Retests Passed	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Closed Defects
<b>Series:</b> Retests Failed	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Closed Defects
<b>Series:</b> Total Retests	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Defects - Closed Defects

### Graph: Failed Tests by Category

Type: Vertical Bar

Frequency: Schedule Based

Description:

<b>Series:</b> MultiSeries Holder	<b>Type:</b> Data	<b>Source:</b> Multi-Series Query	- Testing - Category of Failed Tests
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### Graph: Failed Tests by Cause

Type: Run Graph

Frequency: Schedule Based

Description:

<b>Series:</b> MultiSeries Holder	<b>Type:</b> Data	<b>Source:</b> Multi-Series Query	- Testing - Cause of Failed Tests
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### Graph: Failed Tests by Severity

Type: Vertical Bar

Frequency: Schedule Based

Description:

<b>Series:</b> MultiSeries Holder	<b>Type:</b> Data	<b>Source:</b> Multi-Series Query	- Testing - Severity of Failed Tests
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## Testing Preparation

- Description:** The Testing Preparation Information Need contains a series of graphs about test case plans and growth.
- Plan:** Test planning is a crucial part of the testing process. While preparing for test runs you should develop plan lines based off of similar past projects. Planning cycles and test cases should take into account the number and scope of requirements that need to be tested. Scheduling test cases
- Monitor:** During the testing phase, each of the graphs and alarms in this information need should be monitored for deviance from the previously defined thresholds. Key things to watch for include the number of test cases being developed, the number of test conditions identified, and the number of
- Control:** When a value has gone outside of a specified threshold, an action needs to be taken either to change the trend of the data or to adjust the threshold if the data is determined to be correct. For the number of test cases, it should be monitored for having too many test cases for a specific
- Policy:** (enter organizational policies here)
- Standard:** SEI CMMI v1.2  
ISO/IEC 12207: Software Lifecycle Processes  
IEEE 1008: Software Unit Testing

### Graph: Test Case Growth

- Type:** Run Graph
- Frequency:** Schedule Based
- Description:** This graph displays the total and planned test cases, and the growth over time.

- Series:** Total Test Cases      **Type:** Data      **Source:** Single Series Query - Testing - Total Test Cases
- Series:** Planned Test Cases      **Type:** Data      **Source:** Manual

### Graph: Test Conditions by Criticality

- Type:** Vertical Bar
- Frequency:** Schedule Based
- Description:**

- Series:** Multiseries Holder      **Type:** Data      **Source:** Multi-Series Query - Testing - Conditions by Criticality

### Graph: Test Conditions by Priority

- Type:** Vertical Bar
- Frequency:** Schedule Based
- Description:**

- Series:** Multiseries Holder      **Type:** Data      **Source:** Multi-Series Query - Testing - Conditions by Priority

### Graph: Test Conditions Growth

- Type:** Run Graph
- Frequency:** Schedule Based
- Description:**

- Series:** Test Conditions Identified      **Type:** Data      **Source:** Single Series Query - Testing - Conditions Identified
- Series:** Test Conditions Documented      **Type:** Data      **Source:** Single Series Query - Testing - Conditions Documented
- Series:** Total Test Cases      **Type:** Data      **Source:** Single Series Query - Testing - Total Test Cases

### Graph: Test Automation

Type: Run Graph

Frequency: Schedule Based

Description:

**Series:** Total Test Cases      **Type:** Data      **Source:** Single Series Query - Testing - Total Test Cases

**Series:** Manual Test Cases      **Type:** Data      **Source:** Single Series Query - Testing - Manual Tests

**Series:** Automated Test Cases      **Type:** Data      **Source:** Single Series Query - Testing - Tests to be Automated

### Graph: Completed Test Setup

Type: Run Graph

Frequency: Schedule Based

Description:

**Series:** Setup Tasks Completed      **Type:** Data      **Source:** Single Series Query - Testing - Total Completed Setup Tasks

**Series:** Total Setup Tasks      **Type:** Data      **Source:** Single Series Query - Testing - Total Setup Tasks

### Graph: Setup Tasks to Complete

Type: Run Graph

Frequency: Schedule Based

Description:

**Series:** Total Setup Tasks      **Type:** Data      **Source:** Single Series Query - Testing - Total Setup Tasks



## Software Configuration Management

Description:	This information need contains a series of graphs about software configuration data, files by status, category and other various details.
Plan:	The Software Configuration Mangement (SCM) plan documents what SCM activities are to be done, how they are to be done, who is responsible for doing specific activities, when they are to happen, and what resources are required. It can address SCM activities over any portion of a software
Monitor:	During the course of the project, the total number of code changes, plus the number of files added, changed and removed are monitored. Additionally, the status of the files are monitored for anything that was added, changed or removed.
Control:	SCM plans are generally updated and used throughout the entire software development life cycle. However, the heaviest use is at the beginning of the life cycle when the SCM process is being defined. The SCM plan is primarily used by the SCM organization, however, it is also used on a
Policy:	(enter organizational policies here)
Standard:	SEI CMM v1.2 IEEE 1042: Software Configuration Management IEEE 828: Software Configuration Management Plans

### Graph: CM Change Summary

Type:	Run Graph
Frequency:	Schedule Based
Description:	This graph displays change summary with added, changed, and removed files.

<b>Series:</b> Changed Files	<b>Type:</b> Data	<b>Source:</b> Single Series Query - Defects - Closed Defects
<b>Series:</b> Unchanged Files	<b>Type:</b> Data	<b>Source:</b> Single Series Query - Defects - Closed Defects
<b>Series:</b> Removed Files	<b>Type:</b> Data	<b>Source:</b> Single Series Query - Defects - Closed Defects

### Graph: Change Count

Type:	Run Graph
Frequency:	Schedule Based
Description:	This graph displays the change counts for files within code, including number of files changed, and number of changes made.

<b>Series:</b> Total Files	<b>Type:</b> Data	<b>Source:</b> Single Series Query - Defects - Closed Defects
<b>Series:</b> Changed Files	<b>Type:</b> Data	<b>Source:</b> Single Series Query - Defects - Closed Defects

### Graph: Files by Status

Type:	Vertical Bar
Frequency:	Schedule Based
Description:	This graph displays files by status, added, changed, unchanged, and removed.

<b>Series:</b> Added Files	<b>Type:</b> Data	<b>Source:</b> Single Series Query - Defects - Closed Defects
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## Requirements Stability

Description:	This information need contains a series of graphs to manage the stability for requirements of delivered software items.
Plan:	When planning requirements, you should develop plan lines based on past historical data for the the same or similar development approaches. You should create plan lines for requirements growth that correspond to the resources and schedule. You should develop a plan for all types of requirements
Monitor:	Managers should review this IN to verify that the number of requirements at each interval is within acceptable limits to the plan. You should review each graph and indicator status to detect variations from the established plan. Requirements stability should be monitored regularly, preferably no less
Control:	When stability becomes an issue, the first step is to determine where the instability is coming from. The options are that too many requirements are being added, too many requirements are being modified, or too many requirements are being deleted. It is normal at the beginning of a project, or
Policy:	(enter organizational policies here)
Standard:	SEI Capability Maturity Model Integrated v1.2 ISO 12207 - Software Life-Cycle Processes IEEE 1233-1996: System Requirements Specifications

### Graph: Requirements Change Summary

Type:	Run Graph
Frequency:	Schedule Based
Description:	This graph displays the added, edited, deleted and total requirements. The requirements alarm evaluates the percentage of changed requirements.

<b>Series:</b>	Added Requirements	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Requirements - Requirements Added
<b>Series:</b>	Edited Requirements	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Requirements Edited
<b>Series:</b>	Total Requirements	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Requirements - Total Requirements

### Graph: Requirements Volatility

Type:	Run Graph
Frequency:	Schedule Based
Description:	This graph displays the added, edited, deleted, total and planned requirements. The volatility alarm is triggered as a result of the volatility percentage.

<b>Series:</b>	Edited Requirements	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Requirements Edited
<b>Series:</b>	Added Requirements	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Requirements - Requirements Added
<b>Series:</b>	Total Requirements	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Requirements - Total Requirements

### Graph: Requirements TBDs

Type:	Run Graph
Frequency:	Schedule Based
Description:	This graph displays the requirements total along with the percent to be determined and the to be determined count.

<b>Series:</b>	TBD Count	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Requirements - TBD Count
<b>Series:</b>	Requirements Total	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Requirements - Total Requirements

## Schedule Accuracy

- Description:** The Schedule Accuracy Information Need shows the number of personnel, by type, that are required on the project on a monthly basis.
- Plan:** During project planning, resource, tasking and schedule-based activities are analyzed for completeness and reasonableness.
- Monitor:** This information is compared monthly on a planned versus actual basis.
- Control:** Company targets and management thresholds are used to tune business rules and equations enabling potential issues and risks to be identified early.
- Policy:** (enter organizational policies here)
- Standard:** SEI CMMI v1.2  
CMU-SEI-TR-0094: Applying SEI Core Measures - Schedule  
DOD 5000.1 Acquisition Policy

### Graph: Task Start Variance

**Type:** Run Graph  
**Frequency:** Schedule Based  
**Description:** This graph displays the variance between the planned and actual starting dates of tasks.

- Series:** Planned To Start      **Type:** Data      **Source:** Single Series Query - SA - Tasks Planned To Start This Period
- Series:** Tasks Started      **Type:** Data      **Source:** Single Series Query - SA - Tasks Actually Started This Period

### Graph: Task Completion Variance

**Type:** Run Graph  
**Frequency:** Schedule Based  
**Description:** This graph displays the variance between tasks planned to complete and tasks actually completed.

- Series:** Planned To Complete      **Type:** Data      **Source:** Single Series Query - SA - Tasks Planned To Complete This Period
- Series:** Tasks Completed      **Type:** Data      **Source:** Single Series Query - SA - Tasks Actually Completed This Period

### Graph: Task Duration Variance

**Type:** Run Graph  
**Frequency:** Schedule Based  
**Description:** This graph displays the variance between planned and actual duration of tasks.

- Series:** Planned Duration      **Type:** Data      **Source:** Single Series Query - SA - Planned Duration For All Completed Tasks
- Series:** Actual Duration      **Type:** Data      **Source:** Single Series Query - SA - Actual Duration For All Completed Tasks

### Graph: Late Task Aging

Type: Vertical Bar  
Frequency: Schedule Based  
Description: This graph shows aging of late tasks by weeks.

<b>Series:</b> One Week	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - All Tasks 0-7 Days Late
<b>Series:</b> Two Weeks	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - All Tasks 8-14 Days Late
<b>Series:</b> Three to Four Weeks	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - All Tasks 15-29 Days Late
<b>Series:</b> Over Four Weeks	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - All Tasks 30 Days Late Or Greater

### Graph: Milestone Variance

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays the variance between the planned to complete milestones and the actually completed milestones.

<b>Series:</b> Milestones Planned To Complete	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - All Milestones Planned To Finish
<b>Series:</b> Milestones Actual Complete	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - All Milestones Completed

### Graph: Schedule Compression

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays the free and total slack in a schedule.

<b>Series:</b> Total Slack	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - Total Slack for Tasks
<b>Series:</b> Free Slack	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - Total Free Slack for Tasks

### Graph: Schedule Size

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays the total number of summary and milestone tasks.

<b>Series:</b> Tasks	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - Tasks Started Up To The End Of This Period
<b>Series:</b> Summary Tasks	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - Summary Tasks Started To End Of This Period
<b>Series:</b> Milestone Tasks	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA ? Milestone Tasks Started To End Of This Period

### Graph: Task Compliance

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays task compliance in tasks planned to start and end, and actual tasks started and ended.

<b>Series:</b> Compliance Completed	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - Tasks Completed Before This Period
<b>Series:</b> Compliance Planned to Complete	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - Tasks Planned To Complete Before This Period
<b>Series:</b> Compliance Planned to Start	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - Tasks Planned To Start Before This Period
<b>Series:</b> Compliance Started	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- SA - Tasks Started Before This Period

### Graph: Tasks Finished Late Grid

Type: Snapshot Grid  
Frequency: Schedule Based  
Description: This grid displays the tasks that are late being completed.

**Series:** Actual      **Type:** Data      **Source:** Single Series Query - SA - Tasks Finished Grid

### Graph: Tasks Started Late Grid

Type: Snapshot Grid  
Frequency: Schedule Based  
Description: This displays a tabular view of tasks that started late or tasks that were planned to have started and haven't yet.

**Series:** Actual      **Type:** Data      **Source:** Single Series Query - SA - Tasks Started Late Grid

## Schedule Loading

- Description:** This Information Need provides measures based on the analysis of task activities that combine incrementally into a complete project.
- Plan:** During the planning phase, schedules are analyzed for completeness given planned start and end dates. Each activity is analyzed to determine whether all important tasks and events are included and reasonable. Special attention is given to tasks on the critical path and task
- Monitor:** Throughout the projects lifecycle, the current status of major project tasks and events is monitored and reported to assess impact of schedule slips on future activities and milestones. The Gantt View is useful for providing an overall assessment of phase status. Individual measures are analyzed to
- Control:** Slips in critical path tasks and milestones are of major concern due to the ripple effect of overall project schedule. Schedules should also contain sufficient detail to monitor progress and to report progress that allows for early identification of problems.
- Policy:** (enter organizational policies here)
- Standard:** SEI CMMI v1.2  
CMU-SEI-TR-0094: Applying SEI Core Measures - Schedule  
DOD 5000.1 Acquisition Policy

### Graph: Resource Loading

- Type:** Run Graph
- Frequency:** Schedule Based
- Description:** This graph displays the actual and planned resource loading, as well as variance.

**Series:** Planned      **Type:** Data      **Source:** Single Series Query - SL - Planned Hours for this Period

### Graph: Schedule Slack

- Type:** Run Graph
- Frequency:** Schedule Based
- Description:** This graph displays the schedule tasks started and completed late and the schedule slack.

**Series:** Slack      **Type:** Data      **Source:** Single Series Query - SA - Total Slack for Tasks

**Series:** Completed Late      **Type:** Data      **Source:** Single Series Query - SL - Total Tasks Completed

**Series:** Started Late      **Type:** Data      **Source:** Single Series Query - SL - Total Tasks Started Late

### Graph: Task Loading

- Type:** Run Graph
- Frequency:** Schedule Based
- Description:** This graph displays the tasks starting, in progress, and finishing.

**Series:** In Progress      **Type:** Data      **Source:** Single Series Query - SL - Tasks In Progress

**Series:** Starting      **Type:** Data      **Source:** Single Series Query - SL - Tasks Starting This Period

**Series:** Total      **Type:** Data      **Source:** Single Series Query - SL - Total Tasks

**Series:** Finishing      **Type:** Data      **Source:** Single Series Query - SL - Tasks Finishing This Period

## Cost Control

- Description:** This measure involves the work of ensuring that costs fall within budgeted estimates by monitoring actual costs against control estimates, flagging actual or potential deviation, preparing forecasts and recommending actions to be taken to keep costs in line with target.
- Plan:** During the planning process, cumulative spending plan, funding increments and expected budget at completion of the project are represented in run graphs.
- Monitor:** During project execution, actual costs are monitored against planned costs. On labor intensive projects, cost and labor effort will be highly correlated.
- Control:** The spend plan should be realistic over the life of the project. Significant variation in actuals should cause additional investigation and action.
- Policy:** (enter organizational policies here)
- Standard:** ANSI/EIA 748: Earned Value Standard  
 CMU-SEI-TR-0094: Applying SEI Core Measures - Cost  
 ECSS M-60B: Space Project Management - Cost & Schedule Management Standard

### Graph: Budget At Completion

**Type:** Run Graph  
**Frequency:** Schedule Based  
**Description:** This graph displays budget values for ACWP, BAC, EAC, and VAC.

<b>Series:</b> ACWP	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - ACWP
<b>Series:</b> BAC	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - BAC
<b>Series:</b> EAC	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - EAC
<b>Series:</b> VAC	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - VAC

### Graph: Cost Performance

**Type:** Run Graph  
**Frequency:** Schedule Based  
**Description:** This graph displays value of cost performance including ACWP, BAC, BCWP, and BCWS.

<b>Series:</b> ACWP	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - ACWP
<b>Series:</b> BAC	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - BAC
<b>Series:</b> BCWP	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - BCWP
<b>Series:</b> BCWS	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - BCWS

### Graph: Cost Variance

**Type:** Run Graph  
**Frequency:** Schedule Based  
**Description:** This graph displays the planned versus actual cost of the project.

<b>Series:</b> Planned	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - BCWS
<b>Series:</b> Actual	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - ACWP

## Graphing Samples

Description: This information need is a set of examples of the various types of graphs that are possible using this tool.

Plan:

Monitor:

Control:

Policy: not applicable to samples

Standard: not applicable to samples

### Graph: Run Graph

Type: Run Graph

Frequency: Schedule Based

Description: This graph is an example of a run graph. A run graph shows various series over a period of time.

**Series:** Unacceptable      **Type:** Region      **Source:** Manual

### Graph: Gauge

Type: Gauge

Frequency: Schedule Based

Description: This graph is a gauge, displaying a value and regions for a single period.

**Series:** Unacceptable      **Type:** Region      **Source:** Manual

### Graph: Stoplight

Type: Stoplight

Frequency: Schedule Based

Description: This graph is an example of a stoplight. This shows a single alarm value.

**Series:** Red      **Type:** Region      **Source:** Manual

### Graph: Thermometer

Type: Thermometer

Frequency: Schedule Based

Description: This graph is an example of a thermometer chart. This shows the current status value along a thermometer value.

**Series:** Unacceptable      **Type:** Region      **Source:** Manual



## CM Work Quality

- Description:** The CM Work Quality information need contains graphs to help track the rework rate of tasks in a project.
- Plan:** During the planning process, graphs are developed to help track the rework rate of a project. These graphs compare amount of rework necessary to complete a task.
- Monitor:** During life of a project, work quality is monitored by comparing the percentage of task rework rate by the task complete rate per release; the percentage of task rework by the tasks completed by a developer, and the total number of new tasks compared to the total number of rework tasks.
- Control:** An acceptable rework percentage should be established. If the percentage level is outside the acceptable range, action should be taken to reduce the percentage size.
- Policy:** (enter organizational policies here)
- Standard:** SEI CMM v1.2  
IEEE 1042: Software Configuration Management  
IEEE 828: Software Configuration Management Plans

### Graph: Rework Rate

- Type:** Run Graph
- Frequency:** Schedule Based
- Description:** This graph displays the total new and rework tasks.

- Series:** Rework Tasks      **Type:** Data      **Source:** Single Series Query - CM - Rework Tasks
- Series:** Total New Tasks      **Type:** Data      **Source:** Single Series Query - CM - Total New Tasks

### Graph: % Task Rework Rate vs. Tasks Completed by Release

- Type:** Vertical Bar
- Frequency:** Schedule Based
- Description:** Need to make sure the vertical bars are by release  
Must be a multi-series to populate releases

- Series:** % Rework (MU by Release)      **Type:** Data      **Source:** Multi-Series Query - CM - Percent Rework, Release

### Graph: % Task Rework vs. Tasks Completed?by Developer

- Type:** Vertical Bar
- Frequency:** Schedule Based
- Description:** Needs to be an MU

- Series:** % Rework by Developer      **Type:** Data      **Source:** Multi-Series Query - CM - Percent Rework, Dev

## CM Change Rate

**Description:** The CM Change Rate information need contains graphs to track the component release activity and change rate of the project.

**Plan:** During the planning process, graphs are developed to track the component release activity and change rate of the project.

**Monitor:** During project execution, the number of new objects are compared to the number of objects. A percentage of objects is determined from these values.

**Control:**

**Policy:** (enter organizational policies here)

**Standard:** SEI CMM v1.2  
IEEE 1042: Software Configuration Management  
IEEE 828: Software Configuration Management Plans

### Graph: Component Release Activity

**Type:** Run Graph

**Frequency:** Schedule Based

**Description:** This graph displays the component release objects, both new and total.

**Series:** Number of Objects      **Type:** Data      **Source:** Single Series Query - CM - Number of Objects

**Series:** Number of New Objects      **Type:** Data      **Source:** Single Series Query - CM - New Objects

## CM Management

Description:	The CM Management information need contains graphs to track the completion and analysis of tasks within a project.
Plan:	During the planning process, graphs are created that will track the average amount of time it takes to complete tasks, the priority of the tasks, and the task completion rate.
Monitor:	During the project duration, the average complete rate should be compared with expectations or rates of completed projects.
Control:	The average duration should stay within the limits of the standard deviation. Significant variations from the standard deviation should cause additional investigation and action. Managers will need to examine why a task is not completing within the expected timeframe.
Policy:	(enter organizational policies here)
Standard:	SEI CMM v1.2 IEEE 1042: Software Configuration Management IEEE 828: Software Configuration Management Plans

### Graph: Task Completion

Type:	Run Graph
Frequency:	Schedule Based
Description:	This graph displays the tasks started, in progress, and completed.

<b>Series:</b>	Number Tasks Started	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - CM - Number Tasks Started
<b>Series:</b>	Number Tasks in Progress	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - CM - Number Tasks in Progress
<b>Series:</b>	Number Tasks Completed	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - CM - Number Tasks Completed
<b>Series:</b>	Number Tasks	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - CM - Number of Tasks

### Graph: Task Avg Duration from Assmt to Complete by Pri

Type:	Vertical Bar
Frequency:	Schedule Based
Description:	This graph displays the average task duration by priority, based on priorities from the data source.

<b>Series:</b>	Average Task Duration by Priority	<b>Type:</b>	Data	<b>Source:</b>	Multi-Series Query - CM - Avg Task Dur by Pri
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### Graph: Analysis of Tasks by Effective Duration

Type:	Run Graph
Frequency:	Schedule Based
Description:	min, max, std dev and average of tasks effective duration

<b>Series:</b>	Average	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - CM - Eff Duration Avg
<b>Series:</b>	Max	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - CM - Eff Duration Max
<b>Series:</b>	Min	<b>Type:</b>	Data	<b>Source:</b>	Single Series Query - CM - Eff Duration Min

## CM Appropriate Use

Description: The CM Appropriate Use information need contains graphs to track the usage, size, and updates within a project.

Plan:

Monitor:

Control:

Policy: (enter organizational policies here)

Standard: SEI CMM v1.2  
IEEE 1042: Software Configuration Management  
IEEE 828: Software Configuration Management Plans

### Graph: Developer Workspace Last Update

Type: Snapshot Grid  
Frequency: Schedule Based  
Description: This grid displays the last update to the developer workspaces.

**Series:** Actual      **Type:** Data      **Source:** Single Series Query - CM - Dev Grid

### Graph: Average Task Size

Type: Run Graph  
Frequency: Schedule Based  
Description: use two axis - primary x for average with autorange/autoscale 2 decimals, secondary for count series

**Series:** Number of Tasks      **Type:** Data      **Source:** Single Series Query - CM - Number of Tasks

**Series:** Number of Files Changed      **Type:** Data      **Source:** Single Series Query - CM - Number of Files Changed

### Graph: Task Size Cumulative

Type: Run Graph  
Frequency: Schedule Based  
Description: Same logic as other one but use cumulative queries

**Series:** Number of Tasks      **Type:** Data      **Source:** Single Series Query - CM - Number of Tasks

**Series:** Number of Files Changed      **Type:** Data      **Source:** Single Series Query - CM - Number of Files Changed Cum

### Graph: Workspace Update Aging

Type: Vertical Bar  
Frequency: Schedule Based  
Description: show workspaces updated within the last 1,2,3,4,5,6+ allow drill to grid for details on which ones were updated

**Series:** 1 day      **Type:** Data      **Source:** Single Series Query - CM - Aging, 1 day

**Series:** 2 days      **Type:** Data      **Source:** Single Series Query - CM - Aging, 2 days

## Graph: Percent Objects With 2 or More Previous Versions

Type: Run Graph  
Frequency: Schedule Based  
Description: count of object (files) with more 2 or more ancestor

**Series:** Number of Objects      **Type:** Data      **Source:** Single Series Query - CM - Number of Objects  
**Series:** Objects With Two or More Ancestors      **Type:** Data      **Source:** Single Series Query - CM - 2 or more ancestors

## Earned Value Management

**Description:** This information need holds information about earned value such as cost and schedule performance. It requires data from the Cost Control and Schedule Accuracy information needs to display correctly.

**Plan:**

**Monitor:**

**Control:**

**Policy:** (enter organizational policies here)

**Standard:** ANSI/EIA 748: Earned Value Standard  
CMU-SEI-TR-0094: Applying SEI Core Measures - Cost, Schedule  
ECSS M-60B: Space Project Management - Cost & Schedule Management Standard

### Graph: Budget At Completion

**Type:** Run Graph

**Frequency:** Schedule Based

**Description:** This graph displays key cost values including ACWP, BAC, Total Budget, EAC, and VAC.

<b>Series:</b> ACWP	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - ACWP
<b>Series:</b> BAC	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - BAC
<b>Series:</b> EAC	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - EAC
<b>Series:</b> VAC	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - VAC

### Graph: Cost Performance

**Type:** Run Graph

**Frequency:** Schedule Based

**Description:** This graph displays cost values for ACWP, BAC, BCWP, and BCWS. It also tracks the cost performance index.

<b>Series:</b> ACWP	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - ACWP
<b>Series:</b> BAC	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - BAC
<b>Series:</b> BCWP	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - BCWP
<b>Series:</b> BCWS	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - BCWS

### Graph: Cost Variance

**Type:** Run Graph

**Frequency:** Schedule Based

**Description:** This graph displays actual cost, planned cost, and the variance.

<b>Series:</b> Actual	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - ACWP
<b>Series:</b> Planned	<b>Type:</b> Data	<b>Source:</b> Single Series Query	- Cost Control - BCWS

## Graph: Schedule Variance

Type: Run Graph  
Frequency: Schedule Based  
Description: This graph displays schedule variance including ACWP, BCWP, BCWS, EAC, BAC and cost and schedule variance.

<b>Series:</b> ACWP	<b>Type:</b> Data	<b>Source:</b> Single Series Query - Cost Control - ACWP
<b>Series:</b> BCWP	<b>Type:</b> Data	<b>Source:</b> Single Series Query - Cost Control - BCWP
<b>Series:</b> BCWS	<b>Type:</b> Data	<b>Source:</b> Single Series Query - Cost Control - BCWS
<b>Series:</b> EAC	<b>Type:</b> Data	<b>Source:</b> Single Series Query - Cost Control - EAC
<b>Series:</b> BAC	<b>Type:</b> Data	<b>Source:</b> Single Series Query - Cost Control - BAC

## PMO Consistency

Description: The PMO Consistency information need tracks the number of employees trained in PM, the overall project completion rate, and project using approved standards, certified PMs and an assigned PM.

Plan:

Monitor:

Control:

Policy: (enter organizational policies here)

Standard:

## Graph: Overall Project Completion Rate

Type: Gauge  
Frequency: Schedule Based  
Description: This gauge displays the overall project completion rate for all projects. The regions can be adapted to match company protocol.

<b>Series:</b> red	<b>Type:</b> Region	<b>Source:</b> Manual
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## PMO Control

Description: The PMO Control information need tracks the cost and on time progress for a project.

Plan:

Monitor:

Control:

Policy: (enter organizational policies here)

Standard:

### Graph: Milestone Management

Type: Gauge

Frequency: Schedule Based

Description: This gauge displays the percent meeting target dates met.

**Series:** red

**Type:** Region **Source:** Manual