

**Measurement Information Specification  
Feasibility of Plans  
Version 3.0**

<b>Information Need Description</b>	
<b>Information Need</b>	
<b>Questions Addressed</b>	
<b>Information Category</b>	Schedule and Progress Resources and Cost Product Size and Stability
<b>Description</b>	

<b>Measurable Concept</b>	
<b>Measurable Concept</b>	Milestone Performance Personnel Work Unit Progress Functional Size and Stability

<b>Entities and Attributes</b>	
<b>Relevant Entities</b>	
<b>Attributes</b>	

<b>Base Measure Specification</b>	
<b>Base Measures</b>	Milestone Dates Effort Component Status (Code and Unit Test) Requirements
<b>Measurement Methods</b>	
<b>Type of Method</b>	
<b>Scale</b>	
<b>Type of Scale</b>	
<b>Unit of Measurement</b>	
<b>Categorization</b>	
<b>Typical Aggregation Structure</b>	
<b>Typically Collected for Each</b>	
<b>Count Actuals Based on</b>	

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<b>Derived Measure Specification</b>	
<b>Derived Measure</b>	
<b>Measurement Function</b>	

# Measurement Information Specification

## Feasibility of Plans

### Version 3.0

<b>Indicator Specification</b>																																																																																																																																																																																
<b>Analysis guidance and examples</b>	<p>Because schedule, effort, and functionality are interrelated, assumptions and plans that are associated with these attributes must be evaluated together, not just individually. For example, the question of whether or not a given schedule is feasible cannot be answered without considering the product size and the planned effort. Figures 5-48a through 5-48d represent plans from the same project that should be examined together to evaluate feasibility.</p> <p>Figure 5-48a charts the planned milestone dates for major project activities.</p> <p>Figure 5-48b plots the planned staffing level over time for both the prime and the subcontractor. Note the flat staffing profile for the prime contractor. In general, a more effective staffing profile would reflect a gradual buildup during requirements analysis and the early stages of design.</p> <p>Figure 5-48c shows the planned work unit progress for code and unit test. Note the rapid buildup toward the end of this activity. An explanation and justification for this assumed rapid progress is needed.</p> <p>Figure 5-48d tracks planned growth in requirements. The assumption is that there will be a steep growth followed by absolute stability. The assumption of zero requirements growth must be questioned.</p> <p>In addition to analyzing the feasibility of these four individual plans, comparing these plans yields valuable insight into overall feasibility. A review of the staffing plan identifies even more risk in the planned code and unit test progress. Note that the subcontractor provides staff only through May 1999, when code and unit test for their units is completed. The subcontractor will be unavailable to address any problems and defects found during integration and test. Note also that a rapid increase in code and unit test progress is planned after May 1999. At this time, the subcontractor is gone and the prime staffing remains constant.</p> <p>By comparing the planned milestone dates with the planned requirements growth, another inconsistency is revealed. According to the milestone dates, requirement analysis will be completed by May 1998. However, the project plans assume continual requirements growth after this point.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>Figure 5-48a: Project Activity Schedule</b></p> <table border="1" style="font-size: small; margin: 0 auto;"> <thead> <tr> <th>Activity</th> <th>2014</th> <th>2015</th> </tr> <tr> <td></td> <td>Jan   Feb   Mar   Apr   May   Jun   Jul   Aug   Sep   Oct   Nov   Dec</td> <td></td> </tr> </thead> <tbody> <tr> <td>Requirements Analysis</td> <td colspan="12">[Bar from Mar to Apr]</td> </tr> <tr> <td>Preliminary Design</td> <td colspan="12">[Bar from Apr to Jun]</td> </tr> <tr> <td>Test Planning</td> <td colspan="12">[Bar from May to Sep]</td> </tr> <tr> <td>Detailed Design</td> <td colspan="12">[Bar from Jun to Oct]</td> </tr> <tr> <td>Upgrade DBMS</td> <td colspan="12">[Bar from Jul to Sep]</td> </tr> <tr> <td>Code and Unit Test</td> <td colspan="12">[Bar from Aug to Dec]</td> </tr> <tr> <td>Integration Test</td> <td colspan="12">[Bar from Oct to Dec]</td> </tr> <tr> <td>System Test</td> <td colspan="12">[Bar from Nov to Dec]</td> </tr> </tbody> </table> </div> <div style="text-align: center;"> <p><b>Figure 5-48b: Staffing Profile</b></p> <table border="1" style="font-size: small; margin: 0 auto;"> <thead> <tr> <th>Date</th> <th>Prime (FTE)</th> <th>Sub (FTE)</th> </tr> </thead> <tbody> <tr><td>Jan 13</td><td>9</td><td>0</td></tr> <tr><td>May 13</td><td>9</td><td>4</td></tr> <tr><td>Sep 13</td><td>9</td><td>4</td></tr> <tr><td>Jan 14</td><td>9</td><td>5</td></tr> <tr><td>May 14</td><td>9</td><td>6</td></tr> <tr><td>Sep 14</td><td>9</td><td>4</td></tr> <tr><td>Jan 15</td><td>9</td><td>0</td></tr> <tr><td>May 15</td><td>9</td><td>0</td></tr> <tr><td>Sep 15</td><td>9</td><td>0</td></tr> <tr><td>Jan 16</td><td>9</td><td>0</td></tr> </tbody> </table> </div> <div style="text-align: center;"> <p><b>Figure 5-48c: Code and Unit Test Progress</b></p> <table border="1" style="font-size: small; margin: 0 auto;"> <thead> <tr> <th>Date</th> <th>Number of Units Completing Code and Unit Test</th> </tr> </thead> <tbody> <tr><td>Oct 2014</td><td>0</td></tr> <tr><td>Dec 2014</td><td>100</td></tr> <tr><td>Feb 2015</td><td>150</td></tr> <tr><td>Apr 2015</td><td>200</td></tr> <tr><td>Jun 2015</td><td>300</td></tr> <tr><td>Aug 2015</td><td>450</td></tr> <tr><td>Oct 2015</td><td>600</td></tr> <tr><td>Dec 2015</td><td>700</td></tr> </tbody> </table> </div> <div style="text-align: center;"> <p><b>Figure 5-48d: Requirements Growth - Plan</b></p> <table border="1" style="font-size: small; margin: 0 auto;"> <thead> <tr> <th>Date</th> <th>Number of Requirements</th> </tr> </thead> <tbody> <tr><td>1/1/2013</td><td>50</td></tr> <tr><td>1/1/2014</td><td>200</td></tr> <tr><td>1/1/2015</td><td>250</td></tr> <tr><td>1/1/2016</td><td>250</td></tr> <tr><td>1/1/2017</td><td>250</td></tr> <tr><td>1/1/2018</td><td>250</td></tr> </tbody> </table> </div> </div>	Activity	2014	2015		Jan   Feb   Mar   Apr   May   Jun   Jul   Aug   Sep   Oct   Nov   Dec		Requirements Analysis	[Bar from Mar to Apr]												Preliminary Design	[Bar from Apr to Jun]												Test Planning	[Bar from May to Sep]												Detailed Design	[Bar from Jun to Oct]												Upgrade DBMS	[Bar from Jul to Sep]												Code and Unit Test	[Bar from Aug to Dec]												Integration Test	[Bar from Oct to Dec]												System Test	[Bar from Nov to Dec]												Date	Prime (FTE)	Sub (FTE)	Jan 13	9	0	May 13	9	4	Sep 13	9	4	Jan 14	9	5	May 14	9	6	Sep 14	9	4	Jan 15	9	0	May 15	9	0	Sep 15	9	0	Jan 16	9	0	Date	Number of Units Completing Code and Unit Test	Oct 2014	0	Dec 2014	100	Feb 2015	150	Apr 2015	200	Jun 2015	300	Aug 2015	450	Oct 2015	600	Dec 2015	700	Date	Number of Requirements	1/1/2013	50	1/1/2014	200	1/1/2015	250	1/1/2016	250	1/1/2017	250	1/1/2018	250
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<b>Indicator Interpretation</b>	
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<b>Data Collection Procedure (for each Base Measure)</b> <i>Complete this section for each base measure listed on the previous page.</i>
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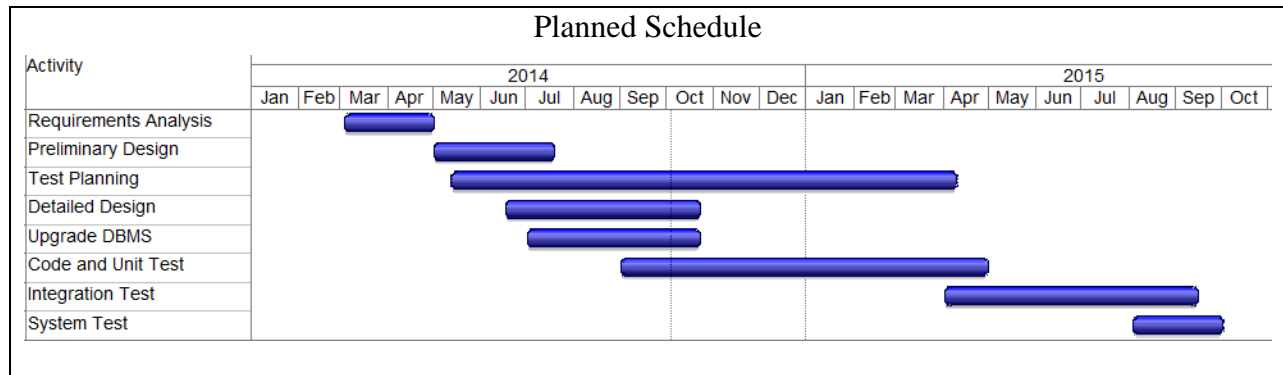
<b>Frequency of Data Collection</b>	
<b>Responsible Individual</b>	
<b>Phase or Activity in which Collected</b>	
<b>Tools Used in Data Collection</b>	
<b>Verification and Validation</b>	
<b>Repository for Collected Data</b>	

<b>Data Analysis Procedure (for each Indicator)</b>
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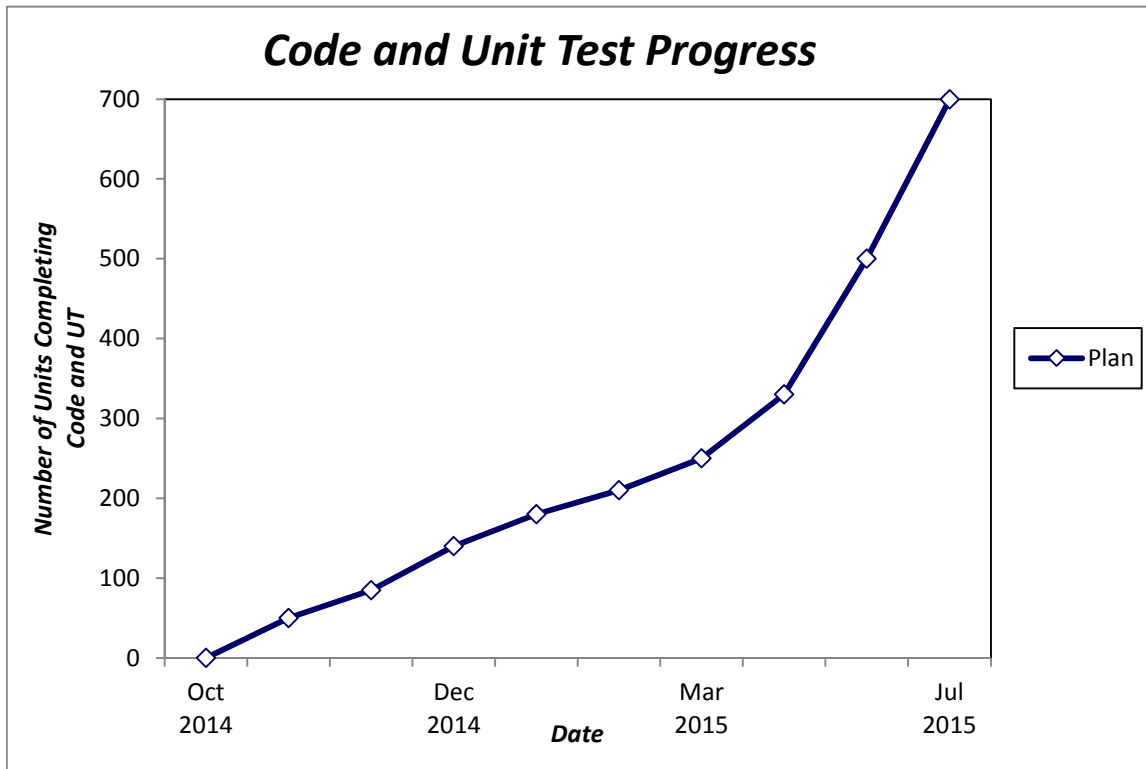
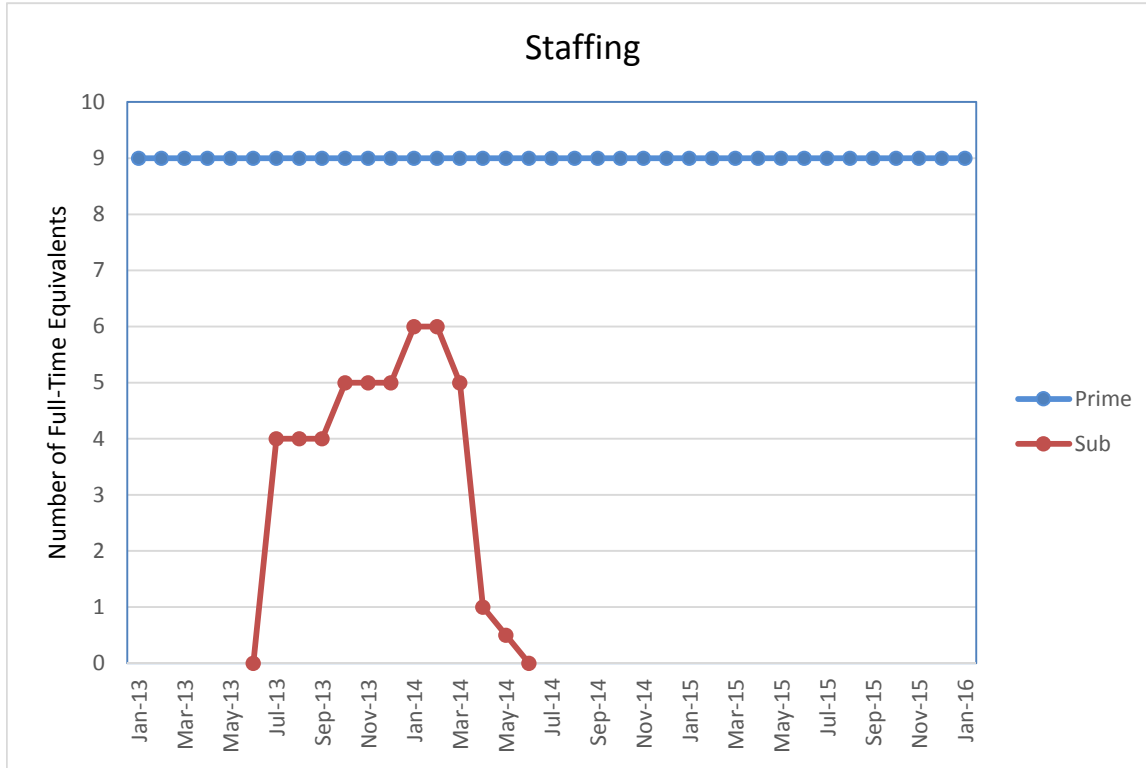
<b>Frequency of Data Reporting</b>	
<b>Responsible Individual</b>	
<b>Phase or Activity in which Analyzed</b>	
<b>Source of Data for Analysis</b>	
<b>Tools Used in Analysis</b>	
<b>Review, Report, or User</b>	

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<b>Additional Information</b>	
<b>Additional Analysis Guidance</b>	<p><b>Additional Analysis</b> The next step is to refine the plans for schedule, effort, and requirements growth to develop a strategy that is realistic and internally consistent.</p> <p><b>Lessons Learned</b> Once the project is underway, changes in any of the plans will likely require modification of other plans. For example, if requirements growth continues past October 1998, the other three measures must be replanned</p>
<b>Implementation Considerations</b>	
<b>Project Application</b>	Applies to most types of projects
<b>Process integration</b>	
<b>Usually Applied During</b>	
<b>Alternatives Include</b>	



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