

<b>Resources Management: "Systems, Infrastructure, and Environments" Resources</b>	
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<p>Purpose: Managing "Systems, Infrastructure, and Environments" as critical program resources is crucial to the success of every major program through each of its phases and at its completion. To ensure that all these resources which are required to make the program successful are well-defined, agreed to, and communicated to all parties involved (as well as monitored throughout the program) the following items must be created and tracked by both the program management team and the program stakeholders.</p> <p>Best Practices include having a separate, independent Resources Management team that reports to a C-level leader and not part of the major program management leaders and team. By so doing, there is focus, objectivity and rigor on the difficult task of effectively and efficiently managing the planning, allocation, calibration and movement/transfers, and de-allocation of people resources as required in a major program as it progresses from phase to phase.</p>	
Information to Manage "Systems, Infrastructure, and Environments" Resources	<b>There is evidence that the information required exists and is being utilized (Y - Yes/N - No)</b>
<b>A. Development</b>	
1. A Development Environment Manual for the Platform or Software System that's being implemented ( including Overview, Set-up, Implementation and Maintenance)	
2. A Diagram for the Platform's (or System's) Development Environment (High Level and Detailed Level)	
3. A Development Environment Manual for any Other related Systems, subsystems, add-ons, interfaces to client legacy systems, interfaces to external entities	

4. Diagram for any Other related systems, subsystems, add-ons, interfaces to client legacy systems, interfaces to external entities (High Level and Detailed Level)	
5. Access Rights and Privileges Documentation or Manual for Platform Development	
6. Access Rights and Privileges Documentation or Manual for Other related Systems, Subsystems, Add-ons, Interfaces	
7. List of Platform Development Environment and Development Systems Personnel Involved and their access rights and privileges (spreadsheet or output of a rights and privileges management system)	
8. List of any Other related "Systems, Subsystems, Add-ons, Interfaces" Development Environment and Development Systems Personnel Involved and their access rights and privileges (spreadsheet or output of a rights and privileges management system)	
9. Actual Logs or audit trail of all changes to access rights and privileges in the Development Platform and Environment	
10. Actual Logs or audit trail of all changes to access rights and privileges for all Non- "Systems, Subsystems, Add-ons, Interfaces" and Environment	
11. Overview Manual and Diagram for the Linkage between the Development Environment for the Platform, and for the Development Environment for Other related Systems (especially Client's Systems)	
<b>B. Testing &amp; Integration Testing</b>	
1. Testing & Integration Testing Manual ( including Overview, Set-up, Implementation and Maintenance)	
2. Diagram for the Combined Platform & Non- "Systems, Subsystems, Add-ons, Interfaces" Testing Environment (High Level and Detailed Level)	
3. Access Rights and Privileges Documentation or Manual for Testing & Integration Testing systems and environment(s)	
4. Actual Logs or audit trail of all changes to access rights and privileges in the Testing and Integration Testing Environments	
<b>C. Model Office</b>	

1. Model Office System and Environment Manual ( including Overview, Set-up, Implementation and Maintenance)	
2. Diagram for the Model Office System and Environment (High Level and Detailed Level)	
3. Access Rights and Privileges Documentation or Manual for Model Office system and environment	
4. Actual Logs or audit trail of all changes to access rights and privileges in the Model Office System and Environment	
<b>D. Staging</b>	
1. Staging System and Environment Manual ( including Overview, Set-up, Implementation and Maintenance)	
2. Diagram for the Staging System and Environment (High Level and Detailed Level)	
3. Access Rights and Privileges Documentation or Manual for the Staging system and environment	
4. Actual Logs or audit trail of all changes to access rights and privileges in the Staging System and Environment	
<b>E. Production</b>	
1. Production System and Environment Manual ( including Overview, Set-up, Implementation and Maintenance)	
2. Diagram for the Production System and Environment (High Level and Detailed Level)	
3. Access Rights and Privileges Documentation or Manual for the Production System and Environment.	
4. Actual Logs or audit trail of all changes to access rights and privileges in the Production System and Environment	
<b>F. Cold &amp; Hot Backups</b>	
1. Cold & Hot Backups Systems and Environment Manual ( including Overview, Set-up, Implementation and Maintenance)	
2. Diagram for the Cold & Hot Backup Systems and Environment (High Level and Detailed Level)	

3. Access Rights and Privileges Documentation or Manual for the Cold and Hot Backup systems and environment	
4. Actual Logs or audit trail of all changes to access rights and privileges in the Cold & Hot Backup Systems and Environment	
<b>G. For Cloud-Based Systems, Infrastructure, and Environments</b>	
<p>NOTE: For Platforms or Systems that will be implemented utilizing Cloud Services provided by third parties such as Amazon, Microsoft, and Google, the Cloud Services Provider(s) must provide the information required for the stakeholders and the program team to understand the Infrastructure and Environments that will be utilized to support the Platform or System. All access rights, privileges, information security, physical security, and any other related cybersecurity requirements must remain the full responsibility of the company's internal workforce and not the Cloud Services Providers. All service level targets and agreements must be defined by the company and formally agreed to with the cloud services providers. A formal written contract must exist that covers all the services required to meet the systems, infrastructure, and environments requirements of the major programs.</p>	
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