| <Company Logo> | <Company Name>  <Company slogan> |
| --- | --- |

<Project Name>

Performance Testing Risk Assessment Document

Version X.X

MM/DD/YYYY

**Document Number:** <document’s configuration item control number>

**Contract Number:** <current contract number of company maintaining document>

Performance Testing Risk Assessment Sign-off

<List out the name of import stakeholders responsible to sign-off the document>

Table 1: Sign-off Detail

| Name | Role / Designation | Signoff Date | Signature |
| --- | --- | --- | --- |
| Name | Project Manager |  |  |
| Name | Business Analyst |  |  |
| Name | Application Architect |  |  |
| Name | Lead Developer |  |  |
| Name | Test Data Manager |  |  |
| Name | Performance Test Manager |  |  |
| Name | Performance Test Environment Manager |  |  |

Record of Changes

< Provide information on how the development and distribution of the performance testing risk assessment were carried out and tracked with dates. Use the table below to provide the version number, the date of the version, the author/owner of the version, and a brief description of the reason for creating the revised version.>

Table 2: Record of Changes

| Version  Number | Date | Author/Owner | Description of Change |
| --- | --- | --- | --- |
| Draft | 01/07/2018 | PerfMatrix | Draft version with available details |
| 0.1 | 15/07/2018 | PerfMatrix | Added Middleware component |
| 0.2 | 30/07/2018 | PerfMatrix | De-scoped ABC database |
| xx | xx/xx/xxxx | xxxxxx | xxxx xxxx xxxx xxx |
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# Executive Summary

<Please write here, a summary and the purpose of the performance testing>

## Overview: Project Background and Scope

<Please write here about the project, application, the purpose of the application, impacted users, benefits etc.>

# Application Architecture

<Please write here the summary of the architecture, technology used, impacted components etc.>

## Overview: System Architecture

<Please write here the detailed description of the application/system>

## Architecture Diagram

<Add architectural diagram of the application in this section>

## Detailed information on each component

<Please write here about each component which is in the system and may impact due to the changes (not for a new application). Also, write how each component will interact with others, what would be the input and what would be the output? etc.>

# Performance Test Scope

## In-scope Component Summary

<List out the components which are in the performance testing scope. In case components do not have a specific name then use the component’s category like web-server, application server etc.>

* InCore
* FUC
* CDM
* CIS
* CAT DB

## De-scoped Component Summary

<List out the components which are in the performance testing scope. In case components do not have a specific name then use the component’s category like web-server, application server etc.>

* OASIS
* ADO
* MAT DB

# Risk Assessment

<Write here the relative details of all the components which are included/impacted in this project. On the basis of available details, you need to decide the scope of performance testing. Justification must be included in the table>

Table 3: Risk Assessment Table

| **Component Name** | Category | Type | Age | Availability | Impact of downtime | Changes in Load / Volume | Nature of change | | Risk Assessment Outcome | Justification |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Software | Hardware |
| InCore | Core | Web-Server | Existing | 24 X 7 | High | 10% increase in existing load | Major | No | In-Scope | This is a core component with major functionality changes. Hence Performance Testing is required |
| FUC | Supporting | Middleware | New | 24 X 7 | High | New | New | New | In-Scope | This is a new component added in the system. Hence PT is required |
| CDM | Supporting | Middleware | Existing | 24 X 7 | Medium | 10% increase in existing volume | Minor | No | In-Scope | Since the volume is high and there are changes in the functionality, so PT is required for this component. |
| CIS | Core | Application Server | Existing | 24 X 7 | Medium | No Change | Major | Yes – Scale-up the memory | In-Scope | This is a core component with major changes in functionality as well as hardware. Hence PT is required. |
| CAT DB | Core | Data Base | Existing | 24 X 7 | Major | 200% increase in existing volume | No | No | In-Scope | This is a core component with a high change in volume. Hence PT is required. |
| OASIS | Supporting | Middleware | Existing | Weekend | Minor | No Change | No | No | Out of Scope | Since no changes in the functionality and load, so OASIS is de-scoped from PT. |
| ADO | Supporting | Middleware | Existing | 24 X 7 | Minor | No Change | No | No | Out of Scope | Since no changes in the functionality and load, so ADO is de-scoped from PT. |
| MAT DB | Core | Data Base | Existing | 24 X 7 | Major | No Change | No | No | Out of Scope | Since no changes in the functionality and load, so this component is de-scoped from PT. |

# Assumptions

<Assumptions should be documented concerning the available information through which risk assessment has been conducted for this performance test cycle. Examples are shown below.>

Table 4: Assumptions

| No. | Assumption |
| --- | --- |
| 1 | The latest version of AO (Architecture Overview) document has been referred for this risk assessment. It is assumed that all the impacted and non-impacted components are listed in the document. |
| 2 | The latest detail of all the components is documented under Risk Assessment Table. These details are provided by respective project team like production support, business analyst etc. |
| 3 | xxxxxxxxxx |

# Project Timelines

<At the initial stage these timelines could be tentative.>

<Key milestones are listed in the table below. Each of the milestones represents a group of tasks on which completion of Performance Testing is dependent. If any of the milestones are listed as “At Risk”, the milestones that follow it will most likely be delayed as well.>

Table 22: Schedule of Milestones

| ID | % Done | At Risk | Task | Due Date | Interface |
| --- | --- | --- | --- | --- | --- |
| 1 | 0-100 | Yes or No | Preliminary Project Plan submitted | xx/xx/xxxx | Project Management |
| 2 | 0-100 | Yes or No | Final Project Plan submitted | xx/xx/xxxx | Project Management |
| 3 | 0-100 | Yes or No | Performance Requirements and Production Load Model reviewed and verified | xx/xx/xxxx | Requirements Management and Performance Engineer |
| 4 | 0-100 | Yes or No | Environment Planning | xx/xx/xxxx | Environment Team and Project Management |
| 5 | 0-100 | Yes or No | Test Plan | xx/xx/xxxx | Performance Engineer |
| 6 | 0-100 | Yes or No | Script Development and Data Planning | xx/xx/xxxx | Performance Engineer and Vendor Project Team |
| 7 | 0-100 | Yes or No | Environment Certification and Test Script Validation | xx/xx/xxxx | Project Management and Environment Team |
| 8 | 0-100 | Yes or No | Data Staging and Setup | xx/xx/xxxx | Performance Engineer and Vendor Project Team |
| 9 | 0-100 | Yes or No | Performance Monitoring Configuration | xx/xx/xxxx | Environment Team and Performance Engineer |
| 10 | 0-100 | Yes or No | Test Execution and Analysis | xx/xx/xxxx | Performance Engineer, Monitoring Tool administrators, and Development |

### Test Organization

<Document the test organization and any other departments that will be supporting the Performance Test Phase.>

Table 23: Test Organization

| Name | Functional Role | Responsibilities |
| --- | --- | --- |
| Name | Project Manager | Facilitating and coordinating all schedules related to SDLC phases and infrastructure |
| Name | Performance Engineering Lead | Manages schedules and activities related to Performance Testing projects |
| Name | Performance Engineer | Prepares for performance test execution, executes performance tests, analyzes performance tests, and tracks problem reports |
| Name | Performance Engineer | Prepares for performance test execution, executes performance tests, analyzes performance tests, and tracks problem reports. |
| Name | Monitoring Support | Monitors performance tests using Performance monitors |
| Name | Application Support | Supports performance test execution as configuration or application issues are found |
| Name | Performance Test Environment Support | Supports and maintains the Performance Test environment |

1. Acronyms

<List out all the acronyms and associated literal translations used within the document. List the acronyms in alphabetical order using a tabular format as depicted below.

Table 24: Acronyms

| Acronym | Literal Translation |
| --- | --- |
| CAT DB | Core Application Table Data Base |
| CDM | CAT Data Middleware |
| CIS | Cisco Integrated System |
| FUC | File Unified Component |
| xxxx | xxxxxxxxxxx |

1. Glossary

<Write down the clear and concise definitions for terms used in this document that may be unfamiliar to readers of the document. Terms are to be listed in alphabetical order.>

Table 25: Glossary

| Term | Definition |
| --- | --- |
| User Load | The number of customer load on the application per unit time. |
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|  |  |

1. Referenced Documents

<List out the documents which were referred during the preparation of Performance Test plan. Also, provide who and when the reference document was prepared along with version>

Table 26: Referenced Documents

| Document Name | Document Location and/or URL | Issuance Date |
| --- | --- | --- |
| AO (Architecture Overview)  Version: 0.6 | <https://xxxxxx.xxxxx.com/project_document/architecture/ao.doc> | 30/06/2018 |
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