**Final Deliverables –** Integrated NPI Build Optimization Framework for Hardware Development

By

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**Name of Project:**

Integrated NPI Build Optimization Framework for Hardware Development

**Overview**

This document outlines the final deliverables for the Integrated NPI Build Optimization Framework project, ensuring all project objectives are met and stakeholder requirements are satisfied.

**Final Deliverables Summary**

|  |  |  |
| --- | --- | --- |
| **Deliverable Name** | **Description** | **Status** |
| **Build Matrices for Components** | Comprehensive matrices for 20+ components to streamline NPI planning processes. | ✅ Completed |
| **Vendor Dashboard** | A real-time dashboard providing visibility into vendor lead times and logistics. | ✅ Completed |
| **BOM Automation Workflows** | Automated workflows for BOM creation, change orders, and tracking accuracy. | ✅ Completed |
| **CTB Dashboard** | Centralized dashboard ensuring 100% adherence to build schedules. | ✅ Completed |
| **Predictive Risk Framework** | A framework identifying high-priority risks and proposing mitigation strategies. | ✅ Completed |
| **Integration Testing Framework** | Detailed framework for system integration testing to improve reliability. | ✅ Completed |

**Detailed Deliverable Descriptions**

**1. Build Matrices for Components**

* **Purpose:** Organize and manage critical components for efficient NPI planning.
* **Features:**
  + Includes specifications, dependencies, and delivery schedules for 20+ components.
  + Easily updatable for future builds.

**2. Vendor Dashboard**

* **Purpose:** Improve visibility into vendor performance and logistics readiness.
* **Features:**
  + Real-time tracking of lead times and delivery statuses.
  + Alerts for potential delays and critical issues.

**3. BOM Automation Workflows**

* **Purpose:** Increase accuracy and efficiency in BOM management.
* **Features:**
  + Automated creation and approval of BOMs.
  + Change order tracking with version control.
  + 25% improvement in data accuracy.

**4. CTB Dashboard**

* **Purpose:** Ensure logistics and build schedules are aligned with project timelines.
* **Features:**
  + Centralized tracking for all CTB activities.
  + Reports on build readiness and adherence.

**5. Predictive Risk Framework**

* **Purpose:** Minimize high-priority risks impacting project timelines and quality.
* **Features:**
  + Predictive analytics to identify potential risks early.
  + 40% reduction in high-priority risks through mitigation strategies.

**6. Integration Testing Framework**

* **Purpose:** Ensure seamless integration of components and systems during testing phases.
* **Features:**
  + Detailed test cases and procedures.
  + Identification of integration bottlenecks and solutions.

**Deliverable Approval**

|  |  |  |
| --- | --- | --- |
| **Deliverable Name** | **Approved By** | **Date Approved** |
| Build Matrices for Components | Project Manager | [MM/DD/YYYY] |
| Vendor Dashboard | Procurement Manager | [MM/DD/YYYY] |
| BOM Automation Workflows | Design Lead | [MM/DD/YYYY] |
| CTB Dashboard | Project Sponsor | [MM/DD/YYYY] |
| Predictive Risk Framework | Risk Manager | [MM/DD/YYYY] |
| Integration Testing Framework | QA Lead | [MM/DD/YYYY] |

**Documentation Associated with Deliverables**

|  |  |  |
| --- | --- | --- |
| **Document Name** | **Description** |  |
| Build Matrix Documentation | Contains specifications, dependencies, and delivery schedules for all components. |  |
| Vendor Dashboard User Guide | Explains dashboard usage, features, and configuration. |  |
| BOM Workflow Implementation Guide | Details the setup and operation of automated workflows. |  |
| CTB Dashboard Report | Provides a summary of build schedule adherence and key metrics. |  |
| Risk Framework Documentation | Outlines risk identification and mitigation strategies. |  |
| Testing Framework Manual | Includes detailed test cases and integration testing procedures. |  |

**Handover to Operations**

* **Transition Plan:**
  + Deliverable ownership transferred to relevant teams (e.g., Operations, QA).
  + Training sessions conducted for stakeholders to use dashboards and frameworks effectively.
* **Support Plan:**
  + Provide initial support for 30 days post-closure to address any issues.

**Recommendations for Future Projects**

1. Leverage insights from the risk framework for future NPI projects.
2. Utilize dashboards as a template for other departments to enhance visibility.
3. Standardize the integration testing framework across all development projects.

**Approval**

|  |  |  |
| --- | --- | --- |
| **Role** | **Signature** | **Date** |
| Project Manager | [Signature] | [MM/DD/YYYY] |
| Project Sponsor | [Signature] | [MM/DD/YYYY] |
| Executive Sponsor | [Signature] | [MM/DD/YYYY] |

**Conclusion**

The final deliverables meet all project objectives and have been approved by stakeholders. This closure ensures a smooth transition to operations while providing a strong foundation for future improvements.