**Business Requirements Document (BRD)**

**Project Title:** CMiC System Field Enhancement

**Prepared By:** [Your Name]  
**Date:** [Insert Date]

**1. Background**

The current CMiC system lacks the necessary fields to accommodate data enhancements requested by the business. This limitation affects the seamless integration of data between upstream systems and CMiC, resulting in potential inefficiencies and incomplete information for downstream users. To address this, we propose adding new fields to the CMiC database to support these requirements.

**2. Objectives**

1. To ensure CMiC can store additional provider-related information to enhance data accuracy and usability.
2. To enable seamless integration of data across systems by aligning field structures.
3. To future-proof the system by accommodating potential data expansions.

**3. Scope**

**In Scope:**

* Addition of new data fields to the CMiC database.
* Updating related APIs to include the new fields.
* Testing of the new fields and integration flows.

**Out of Scope:**

* Modifications to upstream or downstream systems (other than necessary API updates).
* UI/UX changes in CMiC user interfaces.

**4. New Data Fields**

The following fields need to be added to the CMiC database:

| **Field Name** | **Data Type** | **Length** | **Description** |
| --- | --- | --- | --- |
| provider\_desc | nvarchar | 2048 | Detailed description of the provider |
| provider\_preferredness | nvarchar | 300 | Information on provider’s preferred status |
| provider\_level | nvarchar | 100 | Indicates the level or tier of the provider |
| provider\_website | nvarchar | 300 | URL to the provider’s official website |

**5. Functional Requirements**

1. **Database Updates:**
   * Add the specified fields to the CMiC database schema.
   * Ensure data types and lengths align with business needs.
2. **API Updates:**
   * Update relevant APIs to include the new fields in requests and responses.
   * Ensure proper handling of null values for backward compatibility.
3. **Data Mapping:**
   * Map new fields with data provided from upstream systems.
4. **Validation Rules:**
   * Ensure fields accept valid formats (e.g., valid URLs for provider\_website).
   * Prevent exceeding defined character limits.

**6. Non-Functional Requirements**

1. Changes should not degrade system performance.
2. Changes should comply with security and data privacy standards.
3. System downtime during deployment should be minimal.

**7. Stakeholders**

* **Business Users:** Health and Provider Management Team
* **IT Team:** CMiC Development and Maintenance Team
* **QA Team:** Responsible for testing changes
* **Project Sponsor:** [Insert Sponsor Name]

**8. Assumptions**

1. Upstream systems will provide the necessary data for the new fields.
2. No significant changes are required in existing APIs beyond field additions.
3. Adequate resources will be available for development and testing.

**9. Risks and Dependencies**

1. **Risk:** Delay in upstream system readiness could impact testing timelines.
   * *Mitigation:* Collaborate with upstream teams to ensure alignment.
2. **Dependency:** Successful implementation depends on timely updates to APIs and database schema.

**10. Deliverables**

1. Updated CMiC database schema with the new fields.
2. API documentation reflecting the changes.
3. Test cases for validating new fields and integration flows.

**11. Timeline**

| **Milestone** | **Target Date** |
| --- | --- |
| BRD Approval | [Insert Date] |
| Development Start | [Insert Date] |
| Development Completion | [Insert Date] |
| Testing Completion | [Insert Date] |
| Go-Live | [Insert Date] |

**12. Approval**

| **Name** | **Role** | **Signature** | **Date** |
| --- | --- | --- | --- |
| [Name] | Project Sponsor |  |  |
| [Name] | Business Analyst |  |  |
| [Name] | IT Representative |  |  |