**Effort Distribution and Timeline**

**Total Effort: 650 Man Days**

**Timeline**: 4 Months (16 Weeks)

| Breakdown | **Detail** | Effort (Man Days) |
| --- | --- | --- |
| **CR1** | * **System Setup:** Environment Preparation:   + preparing the operating system (Oracle Linux 9.5)   + Oracle database to ensure the environment is fully ready for BRM deployment.   + configuring system parameters, verifying prerequisites. * **Deployment of Online Charging Modules:**    + Installing and performing minimum configuration of the Elastic Charging Engine (ECE) to handle online charging for data services.   + Ensuring the system is capable of efficiently processing charging requests. * **Pricing Design Center (PDC) Setup:**    + Installation of the Pricing Design Center (PDC) to enable future configuration of pricing models and business rules.   + Deploying key components such as the PDC UI, PDC database, and the BRM Integration Pack. | 250 |
| **CR2** | * **Internal System Integration:**    + Focusing on the integration between PDC and ECE (OCS), to enable seamless operations for charging and pricing updates. * **External System Integration:**    + Setting up and testing connections with external systems to process incoming charging requests from the network. | 250 |
| **CR3** | * **Reference Data:**   + Defining data packages and preparing test data for 50 subscribers.   + Creating a simple data package for prepaid users * **Testing and Validation:**    + Conducting a one-month testing and validation phase to ensure the system is operational and meets all functional requirements for data services. | 150 |
|  |  | 650 |

**Deliverables**

|  |  |  |
| --- | --- | --- |
| **CR** | **Steps Implemented** | **Tangible Deliverables** |
| **CR 1** | **System Setup, Deployment of Online Charging Modules, and PDC Setup** | **- Environment prepared with OS and database installed.**  **- ECE installed and configured for online charging.**  **- PDC installed and connected to the system.**  **- Dry test performed to validate basic functionality.** |
| **CR 2** | **Internal System Integration and External System Integration** | **- Integration between PDC and ECE completed for seamless communication.**  **- External connections configured to process prepaid data charging requests.**  **- Validation tests confirm successful handling of online charging requests from the network.** |
| **CR 3** | **Reference Data and Testing/Validation** | **- Data packages defined for prepaid users.**  **- Test data for 50 subscribers prepared.**  **- One-month testing validates system stability and data functionality.** |

**Notes:**

1. Phase 1 is fully scalable and designed for production-grade deployment, not just a Proof of Concept (POC).
2. Phase 1 will be managed through three distinct Change Requests (CRs).
3. Phase 1 is exclusively for testing data functionality, with no inclusion of SMS or voice services.
4. No customization or localization will be performed in Phase 1.
5. External integration in Phase 1 is limited to handling incoming data charging requests for prepaid services.
6. Phase 1 is restricted to 50 test subscribers.
7. Only one unlimited data package is defined for testing purposes in Phase 1.

This Phase 1 project will deliver a robust BRM solution, enabling online charging for data usage while establishing a scalable infrastructure capable of supporting up to 10,000 subscribers. The High-Level Design (HLD) document provides detailed insights into the proposed system architecture and design, ensuring a solid foundation for future growth.