

1 Deliverable Description

ID and Title: D-19 Database Design Document

Description: The Database Design document maps the logical data model to the target database management system with consideration to the system's performance requirements. This document converts logical or conceptual data constructs to physical storage constructs (e.g., tables, files) of the target DBMS.

2 Content

Content Item	Description
1. Introduction	Describe the purpose, scope, approach, and methods for the database design. Provides a system overview, a list of acronyms and abbreviations, points of contact, and data owners.
2. System Overview	Introduce the system context and the basic design approach.
2.1 System Information	Describe the database management system configuration, the database software utilities, the support software, and the security.
2.2 Architecture	Describe the hardware and software architecture, the interfaces, and the data stores.
3. Database Design Decisions	Describe the decisions that impact the proposed database design such as assumptions made, known issues and constraints, performance, security, privacy, and maintenance decisions.
4. Database Administrative Functions	Define the responsibilities, naming conventions, the systems using the database, the relationship to other databases, schema information, entity mapping, demoralization, performance improvement, business rules, storage, and recovery.
5. Database Interfaces	Define the operational implications, data transfer requirements, and data formats related to the database interfaces.
6. Database Monitoring	Define the security, availability, scalability, performance, error processing, backups and recovery, and archiving.
7. Logical Data Model	Definition of common understanding of the business elements and inter-relations to form the basis for the physical database design.
8. Physical Data Model	Diagram of the database relationship between entities.

3 Development and Review Plan

Approver: Lindsey Tucker

Reviewer(s): Justin Tease, Michael Morey, Gartner

Work plan tasks:

Task	Start	End	Notes
Deliverable: (D-19) Database Design Document	3/22/13	5/19/13	
Create Deliverable	3/22/13	4/18/13	
Document Database Design Document	3/22/13	4/18/13	
Review and Approve Deliverable	4/19/13	5/9/13	
Intl Rev & U/D – Database Design Doc	4/19/13	4/25/13	
Milestone: Database Design Document Submitted	4/25/13	4/25/13	
Rev, Rvs & Appr – Database Design Doc	4/26/13	5/9/13	
Milestone: Final Database Design Document Approved	5/9/13	5/9/13	

4 Acceptance Criteria

- Document will include the system context
- Document will include the database design
- Document will include the dependencies and Interfaces with other databases and/or system
- Document will also include logical data model and physical data model including the database entities/tables/views
- Document will also include the definition of common understanding of the business elements and the inter-relations