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| **DEA.04.24.02** Design and Documentation | **Acceptance Criteria** | **Design Content in SDD** | **Artifact Compliance to DE&A Templates** | **DE&A Artifact**  **Sample** | **SDD Artifact** |
| Additional  Compliance Document:  N/A | (1)-The product architecture and design is modeled using UML notation. | SDD All Sections | Yes | N/A | N/A |
| Additional  Compliance Document: | (2)-The product architecture and design is modeled using VA Technical Reference Model (TRM) approved modeling technology. | SDD Section 3.3.2. Special Technology | Yes | TRM Compliance | SDD Table 4 - MCCF EDI TAS Software Packages |
| Additional  Compliance Document: | (3)-The product architecture and design is modeled using the current VA Product Modeling template. | SDD Section 4.3. Network Architecture | Yes | Conceptual Platform Architecture |  |
| Additional  Compliance Document: | (4)-The product architecture and design model includes a Context freeform diagram that indicates the sub-systems associated with the product. | SDD Section 4.3. Network Architecture | Yes | Conceptual Platform Architecture |  |
| Additional  Compliance Document: | (5)-The product architecture and design model includes a Conceptual Platform Architecture deployment diagram that depicts the types of hardware that comprise the product, including the operating system(s) that will be used by each hardware type as well as the communication paths and protocols between hardware types. | SDD Section 4.3. Network Architecture  SDD Section 3.3.4. Conceptual Infrastructure Diagram | Yes | Conceptual Platform Architecture |  |
| Additional  Compliance Document: | (6)-The product architecture and design model includes a Conceptual Software Design component diagram that depicts the high-level software components of the product. | SDD Section 4.3. Network Architecture | Yes | Conceptual Platform Architecture |  |
| Additional  Compliance Document: | (7)-The Conceptual Software Design component diagram identifies the encryption method(s) used to secure data at rest for products that persist Personally Identifiable Information (PII) and/or Protected Health Information (PHI) data. | SDD Section 6.4.2. Privacy | Yes | Conceptual Software Design |  |
| Additional  Compliance Document: | (8)-The product architecture and design model includes a Conceptual Data Model class diagram containing the high level data entities of the product and the relationships between them. | 3.2.1. Project Conceptual Data Model | Yes | Conceptual Data Model | VistA reference:  <http://code.osehra.org/OSEHRA_dox/Package_Integrated_Billing.html> |
| Additional  Compliance Document: | (9)-The product architecture and design model includes an Environments deployment diagram that identifies various environments used to manage change to the product, as well as any accreditation boundaries that have been established. | SDD Section 3.3.4. Conceptual Infrastructure Diagram | Yes | Release Packaging |  |
| Additional  Compliance Document: | (10)-The product architecture and design model includes a deployment diagram for each environment which identifies each hardware instance in the environment and their specifications. | SDD Section 4.2.1.2. MCCF DEV Packages  SDD 3.3.4. Conceptual Infrastructure Diagram | Yes | Software Deployment |  |
| Additional  Compliance Document: | (11)-The product architecture and design model includes a list of technologies that have been used to manage, implement, and test the product. | SDD Section 3.3.2. Special Technology | Yes | TRM Compliance | SDD Table 4 - MCCF EDI TAS Software Packages |
| Additional  Compliance Document: | (12)-The product architecture and design model includes a Logical Data Model class diagram containing the data entities of the solution, the relationships between them, the cardinality of the relationships, and the attributes of each data entity. | 3.2.1. Project Conceptual Data Model | Yes | Logical Data Model | VistA reference:  <http://code.osehra.org/OSEHRA_dox/Package_Integrated_Billing.html> |
| Additional  Compliance Document: | (13)-The product architecture and design model includes an Application Design component diagram that depicts the software components of the product, their attributes and operations, and their public and private interfaces. | SDD Section 7.1. Interface Architecture | Yes | Conceptual Platform Architecture |  |
| Additional  Compliance Document: | (14)-The product architecture and design model includes a Physical Data Model class diagram that depicts implemented tables structure, column names and values, foreign and primary keys and the relationships among the tables. | SDD Section 3.2.1. Project Conceptual Data Model | Yes | Physical Data Model | VistA reference:  <http://code.osehra.org/OSEHRA_dox/Package_Integrated_Billing.html> |
| Additional  Compliance Document: | (15)-The product architecture and design model includes a Release Packaging deployment diagram that depicts the artifact(s) that contain the content needed to deploy the current release. | SDD Section 3.3.4. Conceptual Infrastructure Diagram | Yes | Software Deployment |  |
| Additional  Compliance Document: | (16)-The product architecture and design model includes a Software Deployment diagram that depicts where the artifacts contained in the Release Package are to be deployed. | SDD Section 3.3.4. Conceptual Infrastructure Diagram | Yes | Software Deployment |  |