

State of Arkansas Integrated Eligibility System (ARIES)

I.2.1 - Overall SDLC Approach Plan Deliverable

Document Control Information

Document Information

Document Identification	I.2.1
Document Name	Overall SDLC Approach Plan
Project Name	State of Arkansas Integrated Eligibility System
Client	State of Arkansas
Document Author	Aaron Sugar/Adi Bommaraju
Document Version	1.2
Document Status	Final
Date Released	6/26/2019

Document Edit History

Version	Date	Additions/Modifications	Prepared/Revised by
1.0	05/12/2019	Initial Deliverable Submission	Aaron Sugar
1.1	6/11/2019	Addressed State Comments	Aaron Sugar/Adi Bommaraju
1.2	6/24/2019	Addressed State Comments	Aaron Sugar/Adi Bommaraju

Table of Contents

1	Introduction	4
1.1	Deliverable Description	4
1.1.1	Frequency	5
1.1.2	Associated Requirements	5
1.2	Associated Deliverables	5
1.3	Deliverable Acceptance Criteria	6
1.4	Deliverable Review and Approval	6
1.4.1	Deliverable Walkthrough	6
1.4.2	Review and Approval Stakeholder	6
2	System Development Life Cycle (SDLC)	7
2.1	Enterprise Value Delivery (EVD) for System Integration	7
2.2	Hybrid Agile Approach	8
2.3	System Compliance Support	8
2.4	Software Development Life Cycle Phases	10
2.4.1	Initiate and Plan	10
2.4.2	Requirements Analysis	10
2.4.3	Design	10
2.4.4	Development	11
2.4.5	Testing	14
2.4.6	Transition	17
2.4.7	Maintain & Operate	18
3	Development Standards and Guidelines	19
3.1	Software Development Environment	19
3.2	Process for Build and Release	21
3.3	Solution Testing	22
3.3.1	Unit Testing	22
3.3.2	Peer Code Reviews	22
3.3.3	Integration Testing	23
3.4	Technical & Security Standards	24
3.4.1	Code Standards	24
3.4.2	Code Quality	24
3.4.3	Seven Aspects of Code Quality	24
3.4.4	Tools	24
3.4.5	Signoff Process	25
3.4.6	Code Quality Process Flow	26
3.5	Enhancements and Modifications to COTS Products and Tools	27
4	Roles and Responsibilities Matrix	28
4.1	Requirements Validation & Requirements Traceability Matrix	28
5	Tools, Environment, and Infrastructure	29
6	Baseline Deliverables and Work Products	31
7	Appendix	32
7.1	Appendix A - Unit Test Checklist	32
7.2	Appendix B - Coding and Development Standards	32