
GOLD STANDARD DEVELOPMENT CYCLE – ARTIFACT STRUCTURE

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Classification: CONSTITUTIONAL REFERENCE

MASTER HIERARCHY OVERVIEW

```
GOLD_STANDARD_DEVELOPMENT_CYCLE/
|
|   └── 00_CONSTITUTIONAL_FOUNDATION/
|       ├── CONSTITUTIONAL_RULES.md
|       ├── DOCUMENT_TIER_HIERARCHY.md
|       ├── FOUR_PILLARS_OF_ASSURANCE.md
|       └── GAP_TAXONOMY_REFERENCE.md
|
|   └── VOLUME_I_FOUNDATIONS/
|       ├── STAGE_01_GENESIS/
|       ├── STAGE_02_CONSTITUTION/
|       └── STAGE_03_ARCHITECTURE/
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|   └── VOLUME_II_SPECIFICATION_IMPLEMENTATION/
|       ├── STAGE_04_SPECIFICATION/
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|       └── STAGE_06_VALIDATION/
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|
└── APPENDICES/
    ├── CERTIFICATION_LEVELS.md
    ├── VARIANCE_CLASSIFICATIONS.md
    └── MASTER_ARTIFACT_INDEX.md
```

SECTION 0: CONSTITUTIONAL FOUNDATION

00_CONSTITUTIONAL_FOUNDATION/

```
00_CONSTITUTIONAL_FOUNDATION/
|
|   └── CONSTITUTIONAL_RULES.md
|       ├── CR-001: Three Inviolable Rules
|           ├── Rule 1: Decision-support only (NO trade execution)
|           └── Rule 2: Never resolve contradictions in analysis
```

```

|   |   └── Rule 3: Use descriptive language only
|   ├── CR-002: Zero Loss Mandate
|   ├── CR-003: Approval Gate Requirements
|   └── CR-004: Audit Trail Mandates

|
|   └── DOCUMENT_TIER_HIERARCHY.md
|       ├── TIER_1_CONSTSTITUTIONAL (Inviolable)
|       |   ├── Golden State Specification
|       |   └── Constitutional Rules Document
|       ├── TIER_2_GOVERNANCE (Binding)
|       |   ├── Cursor Engagement Alignment Document
|       |   └── Universal Code Audit Framework
|       ├── TIER_3_OPERATIONAL (Directive)
|       |   ├── Forensic Audit Directive
|       |   ├── Integration Verification Protocol
|       |   └── Domain Test Templates
|       └── TIER_4_REFERENCE (Informational)
|           ├── Gap Analysis Framework
|           ├── Requirements Validation HTML
|           └── Flowcharts & Visualizations

|
|   └── FOUR_PILLARS_OF_ASSURANCE.md
|       ├── PILLAR_1: C4 Model (Simon Brown)
|       |   ├── Context Diagram
|       |   ├── Container Diagram
|       |   ├── Component Diagram
|       |   └── Code Diagram
|       ├── PILLAR_2: Requirements Traceability Matrix (RTM)
|       |   ├── Forward Traceability
|       |   ├── Backward Traceability
|       |   └── Bidirectional Mapping
|       ├── PILLAR_3: API Contract Testing (OpenAPI)
|       |   ├── Schema Validation
|       |   ├── Endpoint Coverage
|       |   └── Mock Server Alignment
|       └── PILLAR_4: Event Storming (Alberto Brandolini)
|           ├── Domain Events
|           ├── Commands
|           ├── Aggregates
|           └── Bounded Contexts

|
└── GAP TAXONOMY REFERENCE.md
    ├── GAP_TYPE_01: Schema Gap
    ├── GAP_TYPE_02: Phantom Gap (code without spec)
    ├── GAP_TYPE_03: Orphan Gap (spec without code)
    ├── GAP_TYPE_04: Contract Gap (API mismatch)
    ├── GAP_TYPE_05: Temporal Gap (timing issues)
    ├── GAP_TYPE_06: Auth Gap (permission issues)
    ├── GAP_TYPE_07: State Gap (state machine issues)
    └── GAP_TYPE_08: Error Gap (error handling issues)

```

VOLUME I: FOUNDATIONS

STAGE_01_GENESIS

Governing Principle: "Every system begins with a vision that must be articulated before it can be built"

```
STAGE_01_GENESIS/
|
|   └── 01.00_STAGE_OVERVIEW.md
|       ├── Universal_Principle
|       ├── Entry_Criteria
|       ├── Exit_Criteria
|       └── Primary_Outputs
|
|   └── 01.01_VISION_DOCUMENT/
|       ├── Problem_Statement.md
|       ├── Stakeholder_Identification.md
|       ├── Success_Metrics.md
|       └── Scope_Boundaries.md
|
|   └── 01.02_FEASIBILITY_ASSESSMENT/
|       ├── Technical_Feasibility.md
|       ├── Resource_Feasibility.md
|       ├── Timeline_Feasibility.md
|       └── Risk_Assessment.md
|
|   └── 01.03_ANTI_PATTERN REVIEW/
|       ├── Known_Anti_Patterns.md
|       ├── Historical_Failures_Analysis.md
|       └── Mitigation_Strategies.md
|
|   └── 01.04_VALIDATION_CRITERIA/
|       ├── Checklist_Genesis_Complete.md
|       └── Sign_Off_Template.md
|
|   └── 01.05_CASE_STUDY_CIA_SIE/
|       ├── Original_Vision.md
|       ├── Problem_Definition.md
|       └── Scope_Classification.md
```

STAGE_02_CONSTITUITION/

Governing Principle: "Inviolable principles must be established before any code is written"

```
STAGE_02_CONSTITUITION/
|
|   └── 02.00_STAGE_OVERVIEW.md
|       ├── Universal Principle
|       ├── Entry Criteria (Genesis Complete)
|       ├── Exit Criteria
|       └── Primary Outputs
|
|   └── 02.01_INVIOLABLE_RULES/
|       ├── CR_001_to_CR_NNN.md (Rule Definitions)
|       ├── Rule_Rationale.md
|       ├── Enforcement_Mechanisms.md
|       └── Violation_Consequences.md
|
|   └── 02.02_PROHIBITED_FEATURES/
|       ├── PR_001_to_PR_NNN.md (Prohibition List)
|       ├── Prohibition_Rationale.md
|       └── Exception_Process.md
|
|   └── 02.03_MANDATED_FEATURES/
|       ├── MN_001_to_MN_NNN.md (Mandate List)
|       ├── Mandate_Rationale.md
|       └── Compliance_Verification.md
|
|   └── 02.04_CONSTITUTIONAL_MARKERS/
|       ├── Code_Marker_Standsards.md
|       ├── Documentation_Marker_Standsards.md
|       └── Audit_Trail_Requirements.md
|
|   └── 02.05_VALIDATION_CRITERIA/
|       ├── Checklist_Constitution_Complete.md
|       └── Constitutional_Review_Sign_Off.md
|
|   └── 02.06_CASE_STUDY_CIA_SIE/
|       ├── Three_Constitutional_Rules.md
|       ├── Prohibited_Trade_Execution.md
|       └── Mandated_Descriptive_Language.md
```

STAGE_03_ARCHITECTURE/

| **Governing Principle:** "Structure precedes substance; design the skeleton before the flesh"

```

STAGE_03_ARCHITECTURE/
|
|   └── 03.00_STAGE_OVERVIEW.md
|       ├── Universal_Principle
|       ├── Entry_Criteria_(Constitution_Complete)
|       ├── Exit_Criteria
|       └── Primary_Outputs
|
|   └── 03.01_C4_MODEL_DIAGRAMS/
|       ├── Level_1_Context_Diagram.md
|       ├── Level_2_Container_Diagram.md
|       ├── Level_3_Component_Diagram.md
|       └── Level_4_Code_Diagram.md
|
|   └── 03.02_LAYER_DEFINITIONS/
|       ├── Presentation_Layer.md
|       ├── Business_Logic_Layer.md
|       ├── Data_Access_Layer.md
|       └── Integration_Layer.md
|
|   └── 03.03_DEPENDENCY_RULES/
|       ├── Allowed_Dependencies.md
|       ├── Forbidden_Dependencies.md
|       └── Dependency_Injection_Strategy.md
|
|   └── 03.04_ARCHITECTURAL_DECISION_RECORDS/
|       ├── ADR_001_to_ADR_NNN.md
|       ├── ADR_Template.md
|       └── ADR_Index.md
|
|   └── 03.05_DOMAIN_SOVEREIGNTY/
|       ├── Domain_1_Definition.md (e.g., CIA-SIE-Pure)
|       ├── Domain_2_Definition.md (e.g., Mercury)
|       ├── Domain_3_Definition.md (e.g., Command-Control)
|       └── Cross_Domain_Interfaces.md
|
|   └── 03.06_VALIDATION_CRITERIA/
|       ├── Checklist_Architecture_Complete.md
|       └── Architecture_Review_Sign_Off.md
|
|   └── 03.07_CASE_STUDY_CIA_SIE/
|       ├── Three_Sovereign_Domains.md
|       ├── Backend_Frontend_CLI_Separation.md
|       └── Ecosystem_Circuit_Diagram.md

```

VOLUME II: SPECIFICATION & IMPLEMENTATION

STAGE_04_SPECIFICATION/

Governing Principle: "Contracts define truth; ambiguity breeds failure"

```
STAGE_04_SPECIFICATION/
|   └── 04.00_STAGE_OVERVIEW.md
|       ├── Universal Principle
|       ├── Entry Criteria (Architecture Complete)
|       ├── Exit Criteria
|       └── Primary Outputs
|
|   └── 04.01_INTERFACE_CONTROL_DOCUMENTS/
|       ├── ICD_001_to_ICD_NNN.md
|       ├── ICD_Template.md
|       └── ICD_Index.md
|
|   └── 04.02_API_CONTRACTS/
|       ├── OpenAPI_Specifications/
|       |   ├── api_spec_v1.yaml
|       |   └── api_spec_changelog.md
|       ├── Endpoint_Definitions.md
|       ├── Request_Response_Schemas.md
|       └── Error_Code_Enumeration.md
|
|   └── 04.03_TYPE_SCHEMAS/
|       ├── Domain_Models.md
|       ├── Data_Transfer_Objects.md
|       ├── Enum_Definitions.md
|       └── Type_Validation_Rules.md
|
|   └── 04.04_STATE_MACHINE_DEFINITIONS/
|       ├── State_Diagrams.md
|       ├── Transition_Rules.md
|       └── Invalid_State_Handling.md
|
|   └── 04.05_VALIDATION_CRITERIA/
|       ├── Checklist_Specification_Complete.md
|       └── Specification_Review_Sign_Off.md
|
|   └── 04.06_CASE_STUDY_CIA_SIE/
|       ├── Kite_API_Integration_Spec.md
|       ├── TradingView_Integration_Spec.md
|       ├── Claude_AI_Integration_Spec.md
|       └── Two_Stage_Analysis_Pipeline_Spec.md
```

STAGE_05_IMPLEMENTATION/

| **Governing Principle:** "Code is the artifact of decisions already made"

```
STAGE_05_IMPLEMENTATION/
|
|   └── 05.00_STAGE_OVERVIEW.md
|       ├── Universal Principle
|       ├── Entry Criteria (Specification Complete)
|       ├── Exit Criteria
|       └── Primary Outputs
|
|   └── 05.01_CODE_GENERATION_STANDARDS/
|       ├── Language_Style_Guide.md
|       ├── Naming_Conventions.md
|       ├── File_Organization_Rules.md
|       └── Comment_Documentation_Standards.md
|
|   └── 05.02_CONSTITUTIONAL_COMPLIANCE_IN_CODE/
|       ├── Constitutional_Marker_Placement.md
|       ├── Runtime_Enforcement.md
|       └── Compile_Time_Checks.md
|
|   └── 05.03_TYPE_SAFETY_ENFORCEMENT/
|       ├── Static_Type_Checking.md
|       ├── Runtime_Type_Validation.md
|       └── Type_Coercion_Rules.md
|
|   └── 05.04_ERROR_HANDLING_PATTERNS/
|       ├── Error_Hierarchy.md
|       ├── Exception_Strategy.md
|       └── Graceful_Degradation.md
|
|   └── 05.05_VALIDATION_CRITERIA/
|       ├── Checklist_Implementation_Complete.md
|       ├── Code_Review_Checklist.md
|       └── Implementation_Sign_Off.md
|
|   └── 05.06_CASE_STUDY_CIA_SIE/
|       ├── Python_FastAPI_Standards.md
|       ├── Constitutional_Marker_Examples.md
|       └── Analysis_Engine_Implementation.md
```

STAGE_06_VALIDATION/

█ **Governing Principle:** "Untested code is untrustworthy code"

```

STAGE_06_VALIDATION/
|
|   └── 06.00_STAGE_OVERVIEW.md
|       ├── Universal_Principle
|       ├── Entry_Criteria_(Implementation Complete)
|       ├── Exit_Criteria
|       └── Primary_Outputs
|
|   └── 06.01_TESTING_PYRAMID/
|       ├── Unit_Tests/
|           ├── Coverage_Requirements.md (90%+)
|           ├── Unit_Test_Template.md
|           └── Mock_Strategy.md
|       ├── Integration_Tests/
|           ├── Integration_Test_Strategy.md
|           ├── External_Service_Mocking.md
|           └── Database_Test_Strategy.md
|       ├── Constitutional_Compliance_Tests/
|           ├── Rule_Violation_Detection.md
|           └── Boundary_Condition_Tests.md
|       └── E2E_Tests/
|           ├── Critical_Path_Coverage.md
|           ├── User_Journey_Tests.md
|           └── E2E_Test_Data_Management.md
|
|   └── 06.02_TEST_FIXTURES_AND_MOCKS/
|       ├── Mock_Fixtures_Library.md
|       ├── Test_Data_Generation.md
|       └── Fixture_Maintenance_Policy.md
|
|   └── 06.03_COVERAGE_ANALYSIS/
|       ├── Coverage_Thresholds.md
|       ├── Coverage_Report.md
|       └── Gap_Identification.md
|
|   └── 06.04_VALIDATION_CRITERIA/
|       ├── Checklist_Validation_Complete.md
|       └── Test_Review_Sign_Off.md
|
|   └── 06.05_CASE_STUDY_CIA_SIE/
|       ├── Domain_Test_Templates_170_Cases.md
|       ├── Kite_API_Mock_Fixtures.md
|       ├── TradingView_Mock_Fixtures.md
|       └── Constitutional_Compliance_Tests.md

```

VOLUME III: INTEGRATION & VERIFICATION

STAGE_07_INTEGRATION/

Governing Principle: "The boundary between components is where failures hide"

```
STAGE_07_INTEGRATION/
|   └── 07.00_STAGE_OVERVIEW.md
|       ├── Universal Principle
|       ├── Entry Criteria (Validation Complete)
|       ├── Exit Criteria
|       └── Primary Outputs
|
|   └── 07.01_TWELVE_PHASE_INTEGRATION_PROTOCOL/
|       ├── Phase_01_Preparation.md
|       ├── Phase_02_Contract_Alignment.md
|       ├── Phase_03_Schema_Validation.md
|       ├── Phase_04_Endpoint_Testing.md
|       ├── Phase_05_Data_Flow_Verification.md
|       ├── Phase_06_Error_Path_Testing.md
|       ├── Phase_07_Auth_Flow_Verification.md
|       ├── Phase_08_State_Transition_Testing.md
|       ├── Phase_09_Performance_Baseline.md
|       ├── Phase_10_Load_Testing.md
|       ├── Phase_11_Chaos_Testing.md
|       └── Phase_12_Integration_Sign_Off.md
|
|   └── 07.02_GAP_DETECTION/
|       ├── Gap_Detection_Methodology.md
|       ├── Gap_Classification_Rules.md
|       ├── Gap_Prioritization_Matrix.md
|       └── Gap_Tracking_Register.md
|
|   └── 07.03_CONTRACT_TESTING/
|       ├── Consumer_Driven_Contracts.md
|       ├── Provider_Verification.md
|       └── Contract_Versioning_Strategy.md
|
|   └── 07.04_CROSS_DOMAIN_INTEGRATION/
|       ├── Domain_Interface_Testing.md
|       ├── Boundary_Validation.md
|       └── Data_Consistency_Verification.md
|
|   └── 07.05_VALIDATION_CRITERIA/
|       ├── Checklist_Integration_Complete.md
|       └── Integration_Review_Sign_Off.md
|
└── 07.06_CASE_STUDY_CIA_SIE/
    ├── CIA_SIE_Pure_Mercury_Integration.md
    ├── Frontend_Backend_Architecture_Diagram.md
    └── API_Contract_Test_Results.md
```

STAGE_08_VERIFICATION/

Governing Principle: "Trust but verify; audit everything"

```
STAGE_08_VERIFICATION/
|   └── 08.00_STAGE_OVERVIEW.md
|       ├── Universal_Principle
|       ├── Entry_Criteria_(Integration_Complete)
|       ├── Exit_Criteria
|       └── Primary_Outputs
|
|   └── 08.01_FORENSIC_AUDIT_PROTOCOL/
|       ├── Audit_Scope_Definition.md
|       ├── Evidence_Collection_Procedures.md
|       ├── Finding_Classification.md
|       └── Audit_Report_Template.md
|
|   └── 08.02_REQUIREMENTS_TRACEABILITY_VERIFICATION/
|       ├── RTM_Validation.md
|       ├── Forward_Trace_Verification.md
|       ├── Backward_Trace_Verification.md
|       └── Orphan_Detection.md
|
|   └── 08.03_CONSTSTITUTIONAL_COMPLIANCE_VERIFICATION/
|       ├── Rule_Adherence_Audit.md
|       ├── Violation_Detection.md
|       └── Compliance_Certification.md
|
|   └── 08.04_CODE_AUDIT/
|       ├── Static_Analysis_Results.md
|       ├── Security_Scan_Results.md
|       ├── Quality_Metrics.md
|       └── Technical_Debt_Assessment.md
|
|   └── 08.05_VALIDATION_CRITERIA/
|       ├── Checklist_Verification_Complete.md
|       └── Verification_Sign_Off.md
|
|   └── 08.06_CASE_STUDY_CIA_SIE/
|       ├── NASA_Grade_Audit_Protocol.md
|       ├── Cursor_Forensic_Audit_Directive.md
|       └── Gold_Standard_100_Percent_Audit.md
```

VOLUME IV: RECONCILIATION & REMEDIATION

STAGE_09_RECONCILIATION/

| **Governing Principle:** "Variance is inevitable; documentation is mandatory"

```
STAGE_09_RECONCILIATION/
|   └── 09.00_STAGE_OVERVIEW.md
|       ├── Universal Principle
|       ├── Entry Criteria (Verification Complete)
|       ├── Exit Criteria
|       └── Primary Outputs
|
|   └── 09.01_VARIANCE_ACCOUNTING/
|       ├── Variance_Identification.md
|       ├── Variance_Classification/
|           |   └── VARIANCE_TYPE_ACCEPTED.md
|           |   └── VARIANCE_TYPE_DEFERRED.md
|           └── VARIANCE_TYPE_WAIVED.md
|       ├── Variance_Impact_Analysis.md
|       └── Variance_Register.md
|
|   └── 09.02_GAP_TO_VARIANCE_MAPPING/
|       ├── Gap_Resolution_Tracking.md
|       ├── Unresolved_Gap_Justification.md
|       └── Deferred_Gap_Timeline.md
|
|   └── 09.03_DOCUMENTATION_RECONCILIATION/
|       ├── Spec_vs_Implementation_Comparison.md
|       ├── Documentation_Update_Log.md
|       └── Living_Documentation_Strategy.md
|
|   └── 09.04_STAKEHOLDER_NOTIFICATION/
|       ├── Variance_Communication_Template.md
|       ├── Impact_Assessment_Summary.md
|       └── Acceptance_Request_Form.md
|
|   └── 09.05_VALIDATION_CRITERIA/
|       ├── Checklist_Reconciliation_Complete.md
|       └── Reconciliation_Sign_Off.md
|
|   └── 09.06_CASE_STUDY_CIA_SIE/
|       ├── Forensic_Reconciliation_Reports.md
|       └── Variance_Analysis_Findings.md
```

STAGE_10_REMEDIALTION/

■ **Governing Principle:** "Systematic correction requires systematic process"

```
STAGE_10_REMEDIACTION/
|   └── 10.00_STAGE_OVERVIEW.md
|       ├── Universal Principle
|       ├── Entry Criteria (Reconciliation Complete)
|       ├── Exit Criteria
|       └── Primary Outputs
|
|   └── 10.01_REMEDIACTION_PLANNING/
|       ├── Prioritization_Matrix.md
|       ├── Remediation_Roadmap.md
|       ├── Resource_Allocation.md
|       └── Timeline_Estimation.md
|
|   └── 10.02_HITL_PROCESS/
|       ├── Human_In_The_Loop_Protocol.md
|       ├── Approval_Gate_Requirements.md
|       ├── Review_Checklist.md
|       └── Sign_Off_Authority.md
|
|   └── 10.03_REMEDIACTION_EXECUTION/
|       ├── Batch_Processing_Protocol.md
|       |   ├── Max_5_10_Files_Per_Batch.md
|       |   ├── Explicit_Approval_Between_Batches.md
|       |   └── Zero_Concurrent_Operations.md
|       ├── Change_Documentation.md
|       └── Rollback_Procedures.md
|
|   └── 10.04_REMEDIACTION_VERIFICATION/
|       ├── Fix_Verification_Protocol.md
|       ├── Regression_Testing.md
|       └── Side_Effect_Analysis.md
|
|   └── 10.05_VALIDATION_CRITERIA/
|       ├── Checklist_Remediation_Complete.md
|       └── Remediation_Sign_Off.md
|
|   └── 10.06_CASE_STUDY_CIA_SIE/
|       ├── Frontend_Design_Validation_HITL.md
|       ├── Remediation_Briefs.md
|       └── Batch_Processing_Execution_Log.md
```

VOLUME V: CERTIFICATION & OPERATION

STAGE_11_CERTIFICATION/

| **Governing Principle:** "Launch readiness demands explicit confirmation"

```
STAGE_11_CERTIFICATION/
|   └── 11.00_STAGE_OVERVIEW.md
|       ├── Universal Principle
|       ├── Entry Criteria (Remediation Complete)
|       ├── Exit Criteria
|       └── Primary Outputs
|
|   └── 11.01_CERTIFICATION_LEVELS/
|       ├── LEVEL_PLATINUM.md (100% compliance, zero variance)
|       ├── LEVEL_GOLD.md (>95% compliance, documented variance)
|       ├── LEVEL_SILVER.md (>90% compliance, accepted variance)
|       ├── LEVEL_BRONZE.md (>80% compliance, deferred items)
|       └── LEVEL_NOT_CERTIFIED.md (<80% compliance)
|
|   └── 11.02_CERTIFICATION_CHECKLIST/
|       ├── Functional_Requirements_Checklist.md
|       ├── Non_Functional_Requirements_Checklist.md
|       ├── Security_Checklist.md
|       ├── Performance_Checklist.md
|       └── Documentation_Checklist.md
|
|   └── 11.03_LAUNCH_READINESS_REVIEW/
|       ├── Go_No_Go_Decision_Matrix.md
|       ├── Risk_Acceptance_Form.md
|       └── Stakeholder_Sign_Off.md
|
|   └── 11.04_CERTIFICATION_DOCUMENTATION/
|       ├── Certification_Report.md
|       ├── Known_Issues_List.md
|       └── Post_Launch_Monitoring_Plan.md
|
|   └── 11.05_VALIDATION_CRITERIA/
|       ├── Checklist_Certification_Complete.md
|       └── Final_Certification_Sign_Off.md
|
|   └── 11.06_CASE_STUDY_CIA_SIE/
|       ├── Certification_Target.md
|       └── Launch_Readiness_Assessment.md
```

STAGE_12_OPERATION/

Governing Principle: "Delivery is not completion; stewardship begins at release"

```

STAGE_12_OPERATION/
|
|   └── 12.00_STAGE_OVERVIEW.md
|       ├── Universal_Principle
|       ├── Entry_Criteria_(Certification_Complete)
|       ├── Exit_Criteria_(Ongoing)
|       └── Primary_Outputs
|
|   └── 12.01_MONITORING_AND_OBSERVABILITY/
|       ├── Health_Check_Definitions.md
|       ├── Alerting_Strategy.md
|       ├── Dashboard_Specifications.md
|       └── Log_Analysis_Procedures.md
|
|   └── 12.02 INCIDENT_RESPONSE/
|       ├── Incident_Classification.md
|       ├── Escalation_Procedures.md
|       ├── Root_Cause_Analysis_Template.md
|       └── Post_Incident_Review.md
|
|   └── 12.03 CHANGE_MANAGEMENT/
|       ├── Change_Request_Process.md
|       ├── Impact_Assessment.md
|       └── Rollback_Procedures.md
|
|   └── 12.04 FEEDBACK_LOOP/
|       ├── User_Feedback_Collection.md
|       ├── Feedback_Triage.md
|       └── Backlog_Integration.md
|
|   └── 12.05 CONTINUOUS_IMPROVEMENT/
|       ├── Retrospective_Template.md
|       ├── Process_Improvement_Log.md
|       └── Lessons_Learned_Repository.md
|
|   └── 12.06 VALIDATION_CRITERIA/
|       ├── Operational_Health_Checklist.md
|       └── Periodic_Review_Schedule.md
|
|   └── 12.07 CASE_STUDY_CIA_SIE/
|       ├── Mission_Control_Console.md
|       ├── Command_Control_Operations.md
|       └── Ongoing_Stewardship_Plan.md

```

APPENDICES

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APPENDICES/
|
|   └── APPENDIX_A_CERTIFICATION_LEVELS.md
|       ├── PLATINUM: 100% compliance, zero variance, all tests passing
|       ├── GOLD: >95% compliance, documented variance only
|       ├── SILVER: >90% compliance, accepted variance
|       ├── BRONZE: >80% compliance, deferred remediation
|       └── NOT_CERTIFIED: <80% compliance, launch blocked
|
|   └── APPENDIX_B_VARIANCE_CLASSIFICATIONS.md
|       ├── ACCEPTED: Variance acknowledged, no action required
|       ├── DEFERRED: Variance acknowledged, action scheduled
|       └── WAIVED: Variance acknowledged, exception granted
|
|   └── APPENDIX_C_GAP_TAXONOMY.md
|       ├── Schema Gap: Data structure mismatch
|       └── Phantom Gap: Code without specification

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|   └── Orphan Gap: Specification without code
|   └── Contract Gap: API contract violation
|   └── Temporal Gap: Timing/sequence issues
|   └── Auth Gap: Permission/authorization issues
|   └── State Gap: State machine inconsistency
|   └── Error Gap: Error handling deficiency
|
|   └── APPENDIX_D_MASTER_ARTIFACT_INDEX.md
|       └── By_Stage_Reference
|           └── By_Document_Type
|               └── By_Creation_Date
|                   └── By_Tier_Classification
|
|   └── APPENDIX_E_REGULATORY_CROSS_REFERENCE.md
|       └── ISO_27001_Mapping
|           └── FDA_21 CFR_Part_11_Mapping
|               └── SOX_Compliance_Mapping
|                   └── DO_178C_Mapping
|                       └── IEC_62304_Mapping
|
|   └── APPENDIX_F_TEMPLATES/
|       └── Stage_Overview_Template.md
|           └── Checklist_Template.md
|               └── Sign_Off_Template.md
|                   └── ADR_Template.md
|                       └── Variance_Request_Template.md

```

QUICK REFERENCE: STAGE SUMMARY TABLE

Stage	Name	Governing Principle	Primary Output
I	GENESIS	Every system begins with a vision	Vision Document
II	CONSTITUTION	Inviolable principles first	Constitutional Rules
III	ARCHITECTURE	Structure precedes substance	C4 Diagrams, ADRs
IV	SPECIFICATION	Contracts define truth	API Specs, ICDs
V	IMPLEMENTATION	Code is the artifact	Source Code
VI	VALIDATION	Untested code is untrustworthy	Test Suite
VII	INTEGRATION	Boundaries hide failures	Integration Report
VIII	VERIFICATION	Trust but verify	Audit Report
IX	RECONCILIATION	Variance is inevitable	Variance Register
X	REMEDIATION	Systematic correction	Remediation Log
XI	CERTIFICATION	Launch demands confirmation	Certification Report
XII	OPERATION	Stewardship begins at release	Operational Runbook

DOCUMENT METADATA

Field	Value
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Created	January 15, 2026
Author	Claude AI (for Neville Mehta)
Project	CIA-SIE Platform
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Total Volumes	5
Total Sub-Artifacts	150+

END OF GOLD STANDARD DEVELOPMENT CYCLE STRUCTURE