Validation Strategist Agent

# Creation and Specification Document

**Factory Agent Implementation\n**September 21, 2025\nBMAD-Compliant Strategic Validation Planning Agent

# ACTIVATION INSTRUCTIONS

Quick Start - Load the Agent:

|  |  |
| --- | --- |
| 1. Navigate to: | C:\\team of agents\\validation\_strategist |
| 2. Load prompt: | .bmad-core\\agents\\validation\_strategist.prompt.md |
| 3. Commands: | Agent auto-displays numbered commands - Type number to execute |
| 4. Start! | Begin strategic validation planning! |

*Ready for immediate use - All BMAD components fully implemented and tested.*

# CREATION STATUS & COMPLIANCE

|  |  |
| --- | --- |
| Creation Date: | September 21, 2025 |
| Agent Type: | Strategic Validation Architect |
| Creation Method: | Factory Agent Guided Development |
| Final Status: | PRODUCTION READY with Full BMAD Compliance |
| Audit Result: | PASSED - All BMAD standards met or exceeded |
| Ready for Deployment: | YES - Immediate production capability |

# AGENT SPECIFICATIONS

|  |  |
| --- | --- |
| Agent Name: | Val |
| Agent ID: | validation\_strategist |
| Title: | Validation Strategy Architect |
| Icon: |  |
| Focus: | Strategic validation planning (not tactical implementation) |
| Location: | C:\\team of agents\\validation\_strategist |
| Output Format: | Dual-format (Markdown + DOCX) professional documents |

## KEY FEATURES & CAPABILITIES

* Strategic validation planning (not tactical implementation)
* Architecture-driven validation approach starting with system analysis
* Risk-based prioritization with comprehensive assessment methodologies
* Dual-format output (Markdown + DOCX) with professional corporate styling
* Complete ASIC/Firmware/System domain coverage and expertise
* Automatic library management with user permission protocols
* Professional template system with intelligent placeholder replacement
* Comprehensive knowledge base including architecture patterns and risk frameworks
* Process validation checklists for quality assurance
* Numbered options protocol for intuitive user interaction

# BMAD STRUCTURE IMPLEMENTATION

## Complete Folder Structure

Perfect BMAD-compliant organization with all 7 core folders:

* .bmad-core/agents/ - Agent prompt definition with YAML configuration
* .bmad-core/tasks/ - 5 comprehensive task workflow definitions
* .bmad-core/templates/ - 6 templates (3 YAML + 3 DOCX professional formats)
* .bmad-core/checklists/ - 2 process validation checklists
* .bmad-core/data/ - 3 knowledge base files with strategic frameworks
* .bmad-core/utils/ - 4 utility functions with enhanced DOCX integration
* .bmad-core/commands/ - BMAD-compliant structure (uses prompt-based commands)
* input files/ - Organized domain-specific folders (ASIC/FW/System)
* validation strategy/ - Dedicated output folder for generated strategies

# COMPONENT SPECIFICATIONS

## Task Definitions (5 Files)

|  |  |
| --- | --- |
| Task File | Purpose & Capability |
| create-validation-strategy.md | Comprehensive validation strategy creation workflow |
| analyze-architecture-docs.md | Architecture document analysis and insight extraction |
| assess-risks.md | Strategic risk assessment with FMEA/HAZOP methodologies |
| define-coverage-strategy.md | Risk-based coverage planning and optimization |
| review-dependencies.md | Feature dependency and integration analysis |

## Template System (6 Files)

Complete dual-format professional template system:

* YAML Templates: validation-strategy-tmpl.yaml, feature-analysis-tmpl.yaml, risk-assessment-tmpl.yaml
* DOCX Templates: Professional formatted documents with corporate styling (38KB each)
* Placeholder System: Dynamic content replacement with intelligent formatting
* Professional Output: Corporate-quality documents suitable for executive presentation

# BMAD COMPLIANCE AUDIT RESULTS

**Audit Date:** September 21, 2025\n**Audit Status: PASSED - FULLY COMPLIANT\nCompliance Level:** Gold Standard BMAD Implementation

## Compliance Verification

* Perfect BMAD folder structure with all 7 core folders implemented
* Complete agent prompt with YAML structure and strategic persona definition
* All 5 task definitions properly structured with clear workflows
* Complete template system: 3 YAML + 3 DOCX templates with professional formatting
* All 4 utility functions with enhanced DOCX template integration
* Complete knowledge base: 3 files including architecture patterns and risk frameworks
* Professional checklists: 2 comprehensive process validation guides
* Zero missing dependencies - all component references resolved
* Professional documentation with corporate-quality formatting standards
* Strategic focus maintained throughout - no tactical implementation details

## Missing Components Resolution

During final audit, 3 missing files were identified and created to achieve full compliance:

* architecture-patterns.md: ASIC/FW/System architecture patterns with validation approaches
* risk-frameworks.md: FMEA, HAZOP, and comprehensive risk assessment methodologies
* validation-strategy-checklist.md: Complete strategy planning and validation process checklist

# USAGE GUIDELINES

## Getting Started

1. 1. Place architecture documents in appropriate input folders (ASIC/FW/System)
2. 2. Run \*create-validation-strategy to start developing comprehensive validation strategy
3. 3. Use \*analyze-architecture to review existing architecture documents
4. 4. Execute \*assess-risks to perform strategic risk assessment
5. 5. Generated documents will be saved in validation strategy folder

## Available Commands

|  |  |
| --- | --- |
| Command | Description |
| \*help | Display all available commands with descriptions |
| \*create-validation-strategy | Generate comprehensive validation strategy |
| \*analyze-architecture | Review and analyze architecture documents |
| \*assess-risks | Perform strategic risk assessment |
| \*define-coverage-strategy | Define strategic coverage approach |
| \*review-dependencies | Analyze feature dependencies and integration |
| \*doc-out | Output current strategy document |
| \*exit | End agent session |

# PRODUCTION READINESS

**Status: PRODUCTION READY** - The Validation Strategist Agent represents a gold standard BMAD implementation with complete strategic validation planning capabilities. Ready for immediate deployment with professional document generation and strategic validation expertise.

## Deployment Confirmation

* Zero missing dependencies - all components implemented and tested
* Complete template integration with professional DOCX generation
* Strategic validation expertise with comprehensive knowledge base
* Full BMAD compliance verified through comprehensive audit
* Professional-grade output suitable for corporate environments
* Intuitive user interface with numbered options protocol
* Robust error handling with graceful degradation
* Ready for immediate production deployment

*Factory Agent Implementation Complete - September 21, 2025*