ROESSLING
DIGITAL SOLUTIONS LLC

# Roessling Digital Solutions Technical Delivery

*Compliance posture:*

CUI (32 CFR 2002) · DFARS 252.204-7012 · DCAA (DFARS 252.242-7006) · Govt Property (FAR 52.245-1) · ITAR-Ready (22 CFR 120-130)

**VOSB**
SBA Certified

**9 Production**
Agentic Applications

**CUI Enclave**
Azure GCCH - MS 365

**20+ Years**
Technical Leadership

**$22M**
Program Led

| | |
|---|---|
| **UEI / CAGE** | J56WX2RQ7UU8 / 156J8 |
| **NAICS** | 541512 (primary), 541511, 541519, 541715, 541330, 541611, 513210, 611420, 611430 |
| **PSC** | AC11, AC12, AC13, AC32, AJ11, AJ12, AJ13, AJ14, AJ15, AK14, AR13, B505, B513, B537, B538, B544, DA01, DA10, DB02, DC01, DD01, DF01, DF10, DG01, DH01, DJ01, DJ10, H270, R408, R425, R499, R612, R799, U002, U012, U099, 7A20, 7A21, 7D20, 7F20, 7J20 |
| **CMMC Level 2** | Operational — Azure GCC High (C3PAO-assessed) |
| **DCAA** | Compliant accounting, timekeeping & cost management |
| **Govt Property** | Operational management of GFP & CAP — FAR 52.245-1, DFARS 252.245-7001/-02/-03/-04; PMSA-ready |
| **Contract Types** | FFP, T&M, Labor-Hour, CPFF, CPAF |
| **SAM.gov** | Active |

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**Architecture, design, implementation, test, and deployment — delivered through rigorous process, modeling, and excellent people, supported by AI.**

Roessling Digital Solutions LLC delivers full-lifecycle technology and engineering across two customer tracks. Modeling anchors every RDS technical delivery — from documenting dataflows and security boundaries to rigorous system-of-systems MBSE design spanning multiple disciplines and domains — scoped to the customer's needs and budget.

**VOSB · SBA Certified · CMMC L2 Operational · ITAR-Ready · UEI J56WX2RQ7UU8 · CAGE 156J8**

## Two Customer Tracks, One Team

**Enterprise IT Modernization.** Business Architecture through Sustainment: TOGAF ADM governance across Phases A–H, BPMN 2.0 process analysis, UML 2 modeling, DevSecOps, and ITIL v4 operations. Operational today in Enterprise Solutions (TOGAF Copilot) across 21 bounded contexts under Architecture Review Board governance.

**Defense Programs.** Mission Analysis through Fielding: UAF (all seven viewpoints), DoDAF, SysML v2, model-based systems engineering, and system-of-systems engineering. JCIDS capability documents — Initial Capabilities Document (ICD), Capability Development Document (CDD), and Capability Production Document (CPD) — are authored to support program milestones. Operational today in Defense Solutions (SysML v2 + UAF convergence platform) with 50+ entity classes and automated model validation.

## Shared Delivery Backbone

**Detailed technical design.** Designs span the full stack — software, data, information systems, systems, server, cloud and on-premise deployment, networks, security, and access control — delivered as UML and SysML models, Visio diagrams, or PowerPoint, Word, and PDF documents, in whatever format and toolset the customer selects. This architecture and design work produces the baselines that carry programs cleanly through Preliminary Design Review (PDR) and Critical Design Review (CDR).

**Full-stack engineering.** Python/FastAPI and TypeScript/React, C, C++, Java, SQL, R, OpenAPI, Docker containerization, Azure deployment, and infrastructure-as-code (Terraform, Bicep) across three enclaves — on-premise, Azure Commercial, and Azure GCC High. Develops custom software, services, and enterprise data integrations; provides unique depth in formal ontologies and Human-AI collaboration with Ph.D.s on staff.

**AI-augmented delivery.** Collaborative Machines — a 31-role multi-agent reasoning platform with the Cognitive Mesh coordination harness — accelerates analysis, documentation, code generation, and review, scaling program-grade output at fixed-price economics.

**Security designed in.** STRIDE threat modeling and zero-trust patterns are integrated from the earliest modeling phases. CMMC L2 operational on the GCC High path for CUI workloads; ITAR-Ready for export-controlled engagements.

**Test-driven quality.** 2,100+ automated Playwright end-to-end tests under CI/CD enforcement, plus model V&V automation for SysML v2 and UAF artifacts.

## How We Work

Delivery cadence — Agile, SAFe, or hybrid — matches your program rhythm. Requirements trace from mission need through verification. Legacy systems integrate through anti-corruption layers and strangler-fig migration, with cutover planning, dress-rehearsal testing, and deployment-readiness reviews. Observability through OpenTelemetry, Prometheus, and Grafana keeps delivered systems transparent and supportable.

## Proof on the Shelf

Nine production applications built in eight months — including Enterprise Solutions (TOGAF Copilot), Defense Solutions (SysML v2 + UAF), Collaborative Machines, Cognitive Mesh, and Contract Officer Solutions — with 2,100+ automated tests. The methodology RDS describes is the methodology that arrives on engagements: every capability is proven in RDS's own environment before it is offered to customers.

## Delivered Through Capability Delivery Sprints

RDS delivers technical capability through fixed-cost, customer-steered Capability Delivery Sprints — focused 2-to-4 week increments, each closing with your review and approval. The sprint catalog spans two tracks; sprints available on each track are noted below.

### Enterprise IT Track

**Business Architecture Sprint.** Establishes business drivers, outcomes, value streams, and the capability map that downstream technical work traces to.

**Business Capability & Process Modeling Sprint.** Delivers capability models and BPMN 2.0 process models that make the operating model explicit and traceable from mission need to execution.

**Technical Architecture Sprint.** Assesses the current environment and defines the technical baseline, standards, and integration patterns that form the architecture runway.

**Solution Architecture Sprint.** Produces the implementation-ready target design — interface, data, and security — and the design baseline for Preliminary Design Review.

**Technical Design & Modeling Sprint.** Delivers detailed technical designs across software, data, systems, networks, security, and access control as UML/SysML models, Visio diagrams, or document formats — the detailed-design baseline for Critical Design Review.

**Technical Lead Planning Sprint.** Converts architecture and design into an executable implementation plan: sequenced backlog or work-breakdown structure, roadmap, and milestone plan.

**Implementation Sprint.** Builds the scoped capability increment with full-stack, test-driven engineering and CI/CD quality gates, delivering working, tested software.

**Configuration Sprint.** Configures and integrates the target environment with infrastructure-as-code provisioning, anti-corruption-layer integration, and security hardening.

**Deployment Sprint.** Releases into the operational environment with cutover planning, dress-rehearsal testing, and deployment-readiness reviews.

**Operational Validation Sprint.** Confirms the delivered capability meets its intended purpose in the operational environment, satisfying the business need and user expectations — closing the verification-and-validation (V&V) loop.

**Documentation Sprint.** Produces deliverable documentation: system records, operator and administrator manuals, configuration baselines, and formatted document drops.

## Defense Programs Track

**Mission Problem Framing Sprint.** Defines the mission problem, decision context, investigative questions, and stakeholders — the framing that scopes the mission-engineering effort.

**Mission Characterization Sprint.** Establishes mission context — scenario, objectives, assumptions, constraints, and measures of success, effectiveness, and performance — to anchor thread development.

**Mission Thread Development Sprint.** Develops the baseline mission thread across activities, actors, and outcomes, traced from mission objective to outcome.

**Mission Engineering Thread Sprint.** Allocates systems, organizations, and capabilities to the mission thread and defines their interactions.

**Mission Architecture Sprint.** Produces integrated baseline and alternative mission architectures, framing the system-of-systems context for downstream architecture and design.

**Mission Analysis Design Sprint.** Defines the analysis approach — runs, tools, data, assumptions, and the evaluation method — for assessing mission architectures.

**Mission Engineering Analysis Sprint.** Executes baseline and alternative analysis to assess mission impact, with results traceable to MOE/MOP measures.

**Results & Recommendations Sprint.** Synthesizes analysis findings, compares alternatives, and produces decision-support recommendations and a sponsor briefing.

**Capability Requirements Sprint.** Defines the capability requirements baseline — mission drivers, operational outcomes, and capability priorities — aligned to JCIDS (ICD/CDD/CPD), producing the capability map downstream engineering traces to.

**Operational Activity Modeling Sprint.** Models operational activities, capabilities, and information exchanges as DoDAF operational viewpoints, making the operational concept explicit and traceable from mission need to activity.

**System Architecture Sprint.** Defines the system architecture, technical baseline, standards, constraints, interfaces, and the MBSE/digital-engineering runway.

**System Design Sprint.** Produces the implementation-ready preliminary system design — system element, interface, data, and security design, MBSE-anchored with SysML v2 and UAF viewpoints — delivering the PDR design baseline.

**Detailed Design & MBSE Sprint.** Delivers the detailed design across the full system as SysML v2/UAF/DoDAF model-based artifacts under a digital-thread approach — the CDR detailed-design baseline.

**Implementation Planning Sprint.** Converts architecture and design into an executable implementation plan: sequenced backlog or work-breakdown structure, roadmap, and milestone plan.

**Implementation Sprint.** Realizes the scoped system element with full-stack, test-driven engineering and CI/CD quality gates, delivering a working, verified system element.

**Integration Sprint.** Integrates system and subsystem elements into the target environment with infrastructure-as-code provisioning, interface verification, and security hardening (DISA STIG).

**Operational Validation Sprint.** Validates that the delivered capability performs as intended in the mission or operational context — satisfying the mission need and operator expectations — closing the V&V loop aligned to DT&E/OT&E.

**Documentation Sprint.** Produces deliverable documentation: system documentation, operator and maintainer manuals, configuration baselines, design records, and CDRL document drops formatted to contract data requirements.

**Deployment Sprint.** Releases into the lab, staging, field, or operational environment with cutover planning, dress-rehearsal testing, and deployment-readiness reviews — and supports RMF/ATO security-control-inheritance evidence.

**Fielding & Training Sprint.** Fields the capability to operational units — new-equipment training for operators and maintainers, change management, and adoption telemetry confirming the capability is used as intended.

## Engage RDS

Technical delivery is available as a standalone engagement or assembled into a multi-sprint Capability Delivery package. Initial conversations cover the customer track, target architecture, and compliance environment.

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