



CONTAINER SUITE FAMILIARIZATION SIMULATOR

A Digital Familiarization and AI Knowledge Assistant Platform

PROJECT SUMMARY

INTERACTIVE CONTAINER FAMILIARIZATION SYSTEM

Walk the
Container.
Explore the
Equipment.
Ask Questions
in Real Time.

ForgeFX Simulations is pleased to propose the development of the IS4S Container Familiarization Platform, a fully offline, iPad-based interactive training and equipment familiarization application designed for government and defense operational environments.

The proposed pilot effort establishes a reusable digital container framework supporting approximately 10 interactive points of interest and an embedded AI-powered knowledge assistant trained on approved equipment manuals and technical documentation. The system is designed for standalone operation without network connectivity and will be pre-installed and delivered on eleven (11) configured iPads.

This pilot deployment is intended to validate the technical approach, establish the user workflow, and provide the scalable architectural foundation for future rollout across all planned container variants.

3D PHOTOREALISTIC CONTAINER MODEL

ForgeFX will develop a fully interactive 3D model of one container variant (exterior walk-around + interior navigation). ForgeFX will leverage existing IS4S CAD models combined with onsite photography and reference capture to maximize realism while maintaining iPad performance targets.

OFFLINE IPAD APPLICATION:

ForgeFX will deliver the solution on 11 pre-configured high-performance iPads optimized for secure standalone operation. The application and all supporting content will operate entirely offline without requiring cloud or network connectivity, enabling reliable deployment in restricted operational environments.

INTERACTIVE POINTS OF INTEREST

Clickable hotspots throughout the container environment provide users with contextual equipment familiarization and system information.

Example hotspots may include power and electrical panels, HVAC, safety systems, and major equipment assets.

EMBEDDED AI KNOWLEDGE ASSISTANT

The application includes an embedded AI-powered knowledge assistant that allows users to ask natural language questions about selected equipment and systems within the virtual environment. The assistant leverages approved technical manuals and documentation to provide contextual responses while operating entirely offline.

PHASE 1 SCHEDULE & COST

ForgeFX recommends a phased implementation approach beginning with development of the shared container framework and an initial pilot deployment before scaling the platform across the remaining container variants.

PHASE 1 – PILOT DEPLOYMENT

Phase 1 includes development of the core digital familiarization platform, one fully interactive container variant, embedded offline AI knowledge assistant functionality, and deployment across eleven configured iPads. This phase is intended to establish the technical architecture, validate the user experience, and refine the deployment workflow prior to expansion into additional variants.

PHASE 2 – VARIANT EXPANSION

Following successful validation of the pilot deployment, ForgeFX will expand the platform across the remaining container variants utilizing the established shared framework, interaction systems, and AI architecture developed during Phase 1. This phased rollout approach reduces development risk, improves production efficiency, and enables incorporation of stakeholder feedback and evolving operational requirements throughout deployment.

Phase 1	Deliverables
Shared Container Framework	Base reusable container architecture, navigation system, interaction framework, and mobile deployment foundation
Initial Container Variant Development	Interactive 3D container environment; walk-around exterior tour; interior navigation; all 10 hotspot interactions; UI/UX design and information panels, and Photorealistic modeling
Embedded AI Knowledge Assistant ¹	Offline localized AI integration, document ingestion workflow, contextual equipment response system, and UI implementation.
Offline iPad Deployment Package	Eleven configured high-performance iPads, cases, charging accessories, deployment setup, and application installation
Program Management & Deployment Support	Technical coordination, review cycles, configuration management, deployment preparation, and client support
Phase 1 Pilot Estimated Duration	3 months
Phase 1 Pilot ROM Estimated Hardware Cost	\$20,000
Phase 1 Pilot ROM Estimated Software Cost	\$240,000
Total Phase 1 ROM Cost	\$260,000
Phase 2 ROM Estimated Cost ²	\$180,000 per variant

¹Because the assistant operates fully offline using a localized on-device AI architecture, response speed and conversational capability may differ from cloud-hosted AI platforms. While the system will prioritize approved technical manuals and supplied reference documentation, conversational AI systems may still generate inferred responses and cannot guarantee completely deterministic outputs in all situations.

²Phase 2 pricing is preliminary and may benefit from additional efficiencies identified during Phase 1 development, particularly where container variants share common layouts, equipment assets, interaction systems, or reusable visual components. Final pricing will vary based on equipment density, variant uniqueness, available CAD fidelity, quantity of technical documentation, and desired interaction depth.