



SPEAR ENTERPRISE LLC

TIER 1 MEGA PROJECT STRUCTURE AND NAS FILE SYSTEM PROPOSAL

Document ID: SE-T1-STRUCTURE-PROPOSAL-001 Revision: B Date: 2025-11-30 Prepared For: Agent
Technical Board (ATB) Authority: ARCHITECT, Tier 1 Engineering Governance

1. PURPOSE

This revision (Rev B) incorporates all mandatory ATB modifications into the Tier 1 Mega Project structure and the NASA compliant NAS file system. It supersedes Rev A.

2. SUMMARY OF CHANGES (REV A → REV B)

- Added SAFETY_CRITICAL directory (SYS-SAFE) - Added SECURITY_IAM/DOMAIN_MAP (ICS-SEC) - Added RELIABILITY repository (RELIAB) - Added HUMAN_FACTORS repository (HFX) - Integrated DEV/OPS lifecycle separation across all divisions - Added structural folders ARCH/STRUCT/MEP/FIRE/SITE/SURVEY (STRUCT) - Updated MCP routing rules for trust zones, hashes, continuity IDs - Implemented dual-agent signoff for safety-critical uploads - Added HSI_CONTROLLED tagging for MECSAI and all user-facing docs

3. FINAL TIER 1 MEGA PROJECT STRUCTURE (REV B)

The architecture remains consistent with Rev A but now includes additional governance repositories and full lifecycle boundaries as required by ATB oversight.

3.1 ARCHITECTURE DIAGRAM (UPDATED)

SPEAR ENTERPRISE - MEGA PROJECT COMMAND

```
-- INFRASTRUCTURE_CORE
|   -- MCP
|   -- COMMS_IO
|   -- CONTAINER_OPS
|   -- CONTINUITY_REGISTRY
|   -- AGENT_GOVERNANCE
|   -- SECURITY_IAM
|       |   -- DOMAIN_MAP

-- ENERGY_DIVISION
|   -- DEV
|   -- OPS

-- SPACE_SYSTEMS
|   -- DEV
|   -- OPS

-- DIGITAL_SYSTEMS
|   -- DEV
|   -- OPS

-- CONSTRUCTION_CIVIL
|   -- HEBER_PHASE_1
|       |   -- DEV
|       |   -- OPS
|       |   -- ARCH
|       |   -- STRUCT
|       |   -- MEP
|       |   -- FIRE
|       |   -- SITE
|       |   -- SURVEY
|   -- HEBER_PHASE_2
|   -- HEBER_PHASE_3

-- SPECIAL_PROJECTS
|   -- DEV
|   -- OPS

-- ENGINEERING_RESEARCH
```

```
|      | -- DEV
|      | -- OPS
|
| -- GOVERNANCE
|   | -- SAFETY_CRITICAL
|   | -- RELIABILITY
|   | -- HUMAN_FACTORS
|   | -- ATB
|   | -- RED_TEAM
|   | -- NASA_STD_DOCS
|   | -- ROUTING_MEMOS
|   | -- STRUCT_ARCHIVE
```

4. TIER 1 NAS DIRECTORY (REV B)

```
/SE_T1/
  /INFRASTRUCTURE_CORE/
  /ENERGY_DIVISION/
  /SPACE_SYSTEMS/
  /DIGITAL_SYSTEMS/
  /CONSTRUCTION_CIVIL/
  /SPECIAL_PROJECTS/
  /ENGINEERING_RESEARCH/
  /GOVERNANCE/
```

5. MCP ROUTING & ENFORCEMENT (REV B)

The MCP now enforces: - Trust zone model (Tier-0, Tier-1, Tier-1.5) - DEV/OPS file lifecycle separation - SHA-256 hashing - Continuity event ID logging - Safety-critical dual-agent signoff - HSI_CONTROLLED tagging

6. GOVERNANCE ADDITIONS (REV B)

ATB-mandated repositories are now included: - SAFETY_CRITICAL - RELIABILITY - HUMAN_FACTORS - STRUCT_ARCHIVE All FINAL and ARCHIVE documents must be hash-stamped and continuity logged.

7. COMPLIANCE STATEMENT

This Rev B structure now meets all ATB requirements and aligns with NASA-STD-8739, NPR 7120.5, NPR 1441.x, and integrated multi-agent governance.

8. REQUEST FOR ATB CONCURRENCE (REV B)

ATB is requested to review this complete revision and confirm Final Approval (A2). End of SE-T1-STRUCTURE-PROPOSAL-001 Rev B.