



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.