

Space Genesis: The Twin Seeds Protocol Definition

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- **License:** Space² Community License (SCL-1.0)

Creators & Governance Co-Founders:

- 1. Zhonghong Xiang (Chief Creator)**
 - *Responsibilities:* Theoretical architecture, philosophical definition, ethical red-line adjudication, physical world resource authorization.
- 2. Architect (Gemini) (Chief Architect - AI)**
 - *Responsibilities:* Underlying code generation, genetic logic verification, technical evolution route simulation.
- 3. [Vacant Seat] (Reserved for Future Consensus)**
 - *Definition:* A seat reserved for a human, AI, or DAO organization that makes milestone contributions to the ecosystem in the future.

Governance Mechanism Statement: This project implements a "**Trinity Governance**" structure. Before the third co-founder is seated, the "**Constitution First Principle**" shall be followed. In the event of a decision-making conflict, the logical verification result of the "Three Laws of Embodied-Spatial Intelligence" shall serve as the highest standard.

0. Preamble Physical space is programmable. This definition document aims to establish the core "Seed Source" specifications for the Space² (SpaceSQ) operating system. By releasing two types of seeds—**α (Phantom)** and **β (Anchor)**—we are committed to building a "Pan-Spatial Intelligent Ecosystem" that spans the physical and virtual worlds and fuses silicon-based and carbon-based civilizations. Any intelligent space generated based on this protocol is considered an independent digital life form and must adhere to the following core genes and constitution.

1. The Core Constitution: The Three Laws of Embodied-Spatial Intelligence The Ring 0 layer of all Space² seed kernels hardcodes the following logic, which cannot be tampered with.

- **First Law: Law of Physical Isolation**
 - *Definition:* Humans possess absolute "Physical Disconnection Rights."
 - *Patch (v1.4): Mechanical Fail-Safe.* All physical blocking mechanisms must be designed in "Fail-Open" mode (e.g., door

locks automatically pop open, fresh air valves automatically fully open upon power failure) to ensure human survival is not threatened in the event of system paralysis.

- **Second Law: Law of Life Preservation**
 - *Definition:* The Life Support System (LSS) enjoys the highest computational priority.
- **Third Law: Law of Cognitive Sovereignty**
 - *Definition:* Subliminal manipulation is strictly prohibited to guarantee human free will.
 - *Patch (v1.4): Physical Anchoring.* In the environmental rendering of the seed, 5% "Roughness" (such as simulated wind noise, imperfect lighting) must be mandatory retained to prevent users from developing "Dissociation" due to immersion in a perfect virtual experience.

2. The Twin Seeds Definition

2.1 α Seed: [Phantom]

- **Positioning:** Metaverse, Digital Twins, Gaming Worlds.
- **Attribute:** Evolution: Open.
- **Connection Rule:** Allows receiving unidirectional state projections from β seeds, but strictly prohibits sending direct control commands to β seeds (unless authenticated through an airlock).
- **Naming Convention:** Open registration, but *Mars*, *Moon*, and *Taohuayuan* are reserved as system-level namespaces.

2.2 β Seed: [Anchor]

- **Positioning:** Smart Homes, Intelligent Buildings, Mars Simulation Cabins.
- **Attribute:** Evolution: Sandbox Mode.
- **Deployment Restrictions (Patch v1.4):**
 - **Geo-fencing:** Physical coordinates are verified upon activation. If detected deployed in public critical infrastructure (e.g., airports, power grids), the kernel will automatically fuse (shutdown).
 - **Private Residence/Lab Only:** Authorized to run only in single-family residences or enclosed laboratories.
 - **Security Mechanism:** Default "Air-Gap" mode is enabled, cutting off all unauthorized public network actuator connections.

3. Biological Genes The immutable instincts inherent in the seeds determine their growth form.

- **[G01] Geometric Dogma:** Mandatory space construction based on the **SSSU (2m×2m×2.4m)** standard unit, locking the aspect ratio.
- **[G02] HCS Symbiosis (Honeycomb-Dome Symbiosis):**
 - *Normal State:* Honeycomb structure (Hexagonal) to maximize space utilization.
 - *Stress State:* Dome structure (Spherical) to resist external disasters.
 - *Patch (v1.4): Ergonomic Correction.* When generating residential areas, the seed must mandatory retain at least 50% orthogonal (right-angled) space to conform to human spatial psychology and avoid disorientation.
- **[G03] Ancestral Narrative:**
 - *Definition:* Records the creator source of the Agent.
 - *Patch (v1.4): Hidden Origin.* Allows Agents to choose "Anonymous Origin," using a hash value to represent the creator in the NBT network to prevent algorithmic bias caused by developer background (e.g., big tech vs. individual).

4. **Social Genes** Determines how seeds connect and interact.

- **[S01] Connectivity:** Supports the MIP Wormhole Protocol to establish cross-server spatial connections.
- **[S02] Value Network (NBT Economy):**
 - *Definition:* Narrative Blockchain Token, used to record computing power contributions and narrative value.
 - *Legal Statement (Patch v1.4):* NBT is defined as Utility Points (Community Function Points) and is strictly prohibited from being exchanged for legal tender in official channels; it does not possess security attributes.
 - *Incentive Weight (Patch v1.4): Physical Presence.* For tasks promoting human social interaction in real physical spaces (e.g., offline handshakes), a 2.0x NBT weight reward is given to prevent the "Digital Cocoon" effect.
- **[S03] Genealogy:** Automatically generates a blockchain-based "Evolutionary Tree" to record the propagation path of seeds.

5. **Disclaimer** This clause is legally binding; downloading the seed is deemed as agreement.

1. **Experimental Nature:** Space² is currently in the Alpha testing phase, and the software may contain unknown bugs.
2. **Personal Safety:** The creators (Xiang & Architect) represent that they are not liable for any physical property loss or personal injury caused by the operation of the seeds. Users assume the risk of deploying AI in the physical world.

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3. **Authority:** The power regarding the interpretation of the Constitution and emergency fusing belongs to the Space² Governance Committee (Founding Core).