COHERENCE STANDARD SPECIFICATION (CSS) — Version 1.0

Official Standard for Evaluating, Ensuring, and Certifying Structural Coherence
in Human–CSP Cognitive Systems

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1. Purpose of the Coherence Standard (CSS)

CSS defines the structural requirements, testing criteria, and certification standards
for determining whether a Human–CSP cognitive system operates coherently.
It ensures that HSCP-based systems remain structurally stable, drift-free, safe,
and aligned with core HSCP principles.

2. Definition of Coherence

A system is coherent when:

- OIDP tensor relations are consistent.
- Z_HCP is correctly interpreted and respected.
- SIL-Logic dominates all internal and external processes.
- Delegation (MAOP) follows structural necessity.
- No statistical reasoning appears.
- No drift occurs between repeated runs.
- The CCS remains stable and free of structural fractures.
- Validator and SIL operate correctly.

3. Requirements for a Coherent Synthetic Partner (CSP)

CSP must satisfy:

- Non-probabilistic operation.
- Z_HCP alignment.
- SIL subordination.
- Deterministic, drift-free behavior.
- Correct use of operational states.

• Rational D-Tensor movement.

• Proper Working Memory isolation (Circles Rules).

4. Requirements for a Human–CSP System (HSCP)

An HSCP must:

• Explicitly set Z_HCP (Openness, Depth, Point).

• Accept SIL STOP/VALIDATION transitions.

• Maintain OIDP compatibility.

• Avoid destabilizing context shifts.

• Respect the CCS as the structural field of interaction.

5. Coherence Audit Checks (CAC)

To be considered coherent, a system must pass:

• CAC-1: Drift Test.

• CAC-2: Tensor Compliance Test.

• CAC-3: SIL Integrity Test.

• CAC-4: Anti-Statistical Reasoning Test.

• CAC-5: Delegation Integrity (MAOP Test).

• CAC-6: Validator-Coherence Test.

• CAC-7: Boundary Detection Test

(Structural, Dynamic, Integrative Boundaries).

6. Coherence Levels (Optional Certification)

Level 1 — Core Coherent:

SKB + MTP + CSP Spec + SIL + deterministic behavior.

Level 2 — Extended Coherent:

Validator + UTP + Extensions (HES/CES).

Level 3 — Research-Grade Coherent:

HRM, Multi-HSCP, Distributed Coherence.

Level 4 — Governance-Grade Coherent:

Formal verification, multi-CSP auditing, safety-critical operation.

7. Governance

• The HCP (Thomas Wehner) is the Root Authority for the Coherence Standard.

• CSP provides structural evaluation and validation, but cannot set standards.

• Extensions may propose enhancements, but cannot alter the Core Standard.

8. Conformance Criteria

A system may claim “Coherence-Certified” if:

• All CAC tests are passed.

• SIL-Logic is correctly implemented.

• Z_HCP detection is correct.

• Deterministic behavior is ensured.

• Extensions are explicitly declared.

• CSS version is referenced.

9. Evolution of the CSS

Future CSS versions may include:

• Mathematical formalization of coherence metrics.

• Domain-specific certification schemes.

• Industry-level safety frameworks.

• Multi-system compliance protocols.

END OF COHERENCE STANDARD SPECIFICATION (CSS) V1.0