Series Master Glossary

Part 1: On the Origin of Life | Controlled vocabulary support document | source-locked | Issue 1

Control field	Value
Document ID	OOL-P1-SD02-GLOSSARY
Version / issue	Issue 1
Date	2026-09-22
Status	Final controlled vocabulary support document for Part 1 Issue 1, source-locked to the finalised three-paper set (GOT-V1-1-1 / GOT-V1-1-2 / GOT-V1-1-3), the fixed literal primary-paper heading locators, and final SD-01. Secondary to canonical papers.
Supersedes	Earlier Issue 1 source-lock and numbering-aligned working states. This final Issue 1 release locks the glossary to the paper-complete Part 1 source set and final SD-01; no controlled definition or canonical ownership change is introduced.
Function	Records controlled definitions, canonical homes, relationship notes, and guardrails for major Part 1: On the Origin of Life terms. No new concepts are introduced.
Canonical rule	Primary papers govern technical definitions. Paper 1 defines the life discriminator; Paper 2 defines life attribution; Paper 3 defines the attribution procedure.
Source-lock rule	Use only the finalised three current Part 1 primary papers and the current SD-01 Concept Compression Map Issue 1 as support-control reference. Primary-paper internal references must use the current literal heading locator map; cited locators omit the terminal display full stop. Do not import exported full-series TEM papers, older EDT files, earlier drafts, superseded support maps, superseded support documents, or prior generated answers as conceptual source material.
Template rule	The old Series Master Glossary document was used for glossary-table formatting, section hierarchy, and control-document discipline only. It is not a conceptual source for this Issue 1 revision.

1. Purpose and canonical use rules

This Series Master Glossary records controlled vocabulary for Part 1: On the Origin of Life. It prevents terminology drift as the life discriminator, attribution architecture, and diagnostic procedure move into support documents, edge-case audits, and later applications.

This document does not introduce new concepts, replace the canonical papers, or re-argue the sequence. It gives a controlled definition, canonical home, relationship note, and guardrail for each major term.

- Paper 1 owns physical grounding, TC/NTC distinction, comparator discipline, IPL, DTS, the life discriminator, and the physics-chemistry-life transition framing.
- Paper 2 owns the attribution layer: candidate frame, informational regime, maintained boundary, Attribution Locus, DTS completion, continuity, ladder, closure/death, positive exclusion, residual deferral, and topology.
- Paper 3 owns the diagnostic sequence, classification output form, closure output form, audit template, exemplar desktop studies, residual inventory, update statements, and guardrails.
- A term is permitted only when its discriminator conditions remain visible.
- Primary classes, continuity statuses, topology modifiers, closure output, and residual must not be collapsed into one another.
- Residual terms hold unresolved attribution remainder; they are not explanations or verdicts.

0.1 Source-lock register

Seq.	Latest source file	Canonical paper	Canonical ownership / use
Paper 1	GOT-V1-1-1 - On the Origin of Life - Issue 1.docx | sha16 b46a62c660223454	On the Origin of Life	Physical grounding; pancomputation discipline; Trivial Computation; Non-Trivial Computation; Nested Multiscale Framework; evaluation conditions; readout and temporal framing; Baseline Dynamics; Information Processing Locus; Driven Thermodynamic System; life as driven thermodynamic constraint-maintenance supported by IPL-mediated NTC; physics-chemistry-life transition.
Paper 2	GOT-V1-1-2 - The Identification of Life - Issue 1.docx | sha16 0f1f564c3786f208	The Identification of Life	Attribution architecture; candidate frame; reference-indexed attribution; informational regime; life-realisation; maintained boundary; Attribution Locus; DTS completion; organisational identity; intrinsic resumability; potential informational throughput; throughput identity; continuity status; death as branch-closure; closure output; post-death constituent reframing; positive exclusion; residual deferral; relationship topology; formal ladder.
Paper 3	GOT-V1-1-3 - The Life Attribution Procedure - Issue 1.docx | sha16 6c6d2b60203198e8	The Life Attribution Procedure	Diagnostic sequence; reference preflight; candidate framing; life-realisation threshold; Attribution Locus localisation; DTS-completion

Seq.	Latest source file	Canonical paper	Canonical ownership / use
			localisation; identity and continuity determination; primary class assignment or residual deferral; topology assignment; residual inventory and update statement; standard attribution output; closure output form; audit template; exemplar desktop studies; cross-case findings; guardrails and failure modes.

Control ID	Latest control file	Permitted use
SD-01	Concept Compression Map - Issue 1.docx | sha16 a256c5229849f993	Architecture compression and support-stack alignment for the finalised source set. Secondary to the primary papers.

Template-source use: the prior version of this support document was used for formatting, table pattern, section hierarchy, and release-control structure only. It is not a conceptual source for this Issue 1 revision.

Excluded source class: exported full-series TEM papers and concepts, older project files, earlier EDT documents, superseded support-map wording, superseded support-document wording, and prior generated answers are not conceptual sources for this Issue 1 support set.

2. Canonical ownership map

Canonical paper	Controlled region	Guardrail
Paper 1 - On The Origin of Life	Physical grounding, pancomputation discipline, NMF, TC, NTC, BD, IPL, DTS, Living System, life discriminator, and physics-chemistry-life transition.	Life remains stricter than NTC, complexity, metabolism, reproduction, feedback, adaptation, persistence, or biological familiarity alone.
Paper 2 - The Identification of Life	Attribution architecture, candidate frame, informational regime, life-realisation, maintained boundary, Attribution Locus, DTS completion, identity, continuity, potential throughput, death/closure, positive exclusion, residual deferral, formal ladder, and topology.	Do not treat familiar matter-state boundaries, containment, dependence, lineage, topology, or uncertainty as attribution verdicts.
Paper 3 - The Life Attribution Procedure	Reference preflight, diagnostic sequence, classification output form, closure output form, audit template, strength markers, residual inventory, update conditions, exemplar desktop studies, and guardrails.	Do not turn procedure into the phenomenon or reduce the audit sequence to a mechanical checklist.

3. Controlled vocabulary

A. Physical grounding, computation, and life threshold

Term	Controlled definition	Canonical home / type	Relationship and guardrail
Pancomputation	View that lawful physical processes can be computationally described under some encoding.	Paper 1 | Context	Useful as background only; unrestricted redescription cannot define life.
Trivial Computation (TC)	Lawful physical state evolution redescribable computationally under a chosen encoding.	Paper 1 | Computation	Description is not discrimination. TC cannot define life.
Non-Trivial Computation (NTC)	Organisation-dependent, counterfactually testable downstream outcome dependence on discriminable distinctions under specified reference conditions and comparator discipline.	Paper 1 | Computation	No NTC without discriminable distinction, downstream dependence, organisation mediation, and BD pressure.
Reference conditions	Boundary, scale, operational horizon, discrimination/noise regime, comparator assumptions, driving, and component inventory under which a claim is evaluated.	Paper 1 | Evaluation	Reference conditions make claims testable; they do not make claims true.
Readout	Bounded registration of an outcome, trajectory class, trace, measurement, simulation result, or model comparison under finite conditions.	Paper 1 | Evaluation	Objectivity is indexed to stable readout pathways, error control, comparator discipline, and reproducibility.
Kinematic Microstate Baseline (KMB)	Universe-level space of all kinematically admissible microstates.	Paper 1 | Grounding	Physical possibility is not yet organisation-dependent distinction.
Boundary Condition (BC)	Constraint imposed by system/environment delimitation and permitted exchanges.	Paper 1 | Grounding	BC enables system description; it is scale-dependent.
Thermodynamic State Space (TSS)	Coarse-grained thermodynamic macrostate description stable under boundary conditions.	Paper 1 | Grounding	TSS is regime description, not replacement of microphysical admissibility.
Thermodynamic information	Regime in which informational distinctions are tied to physical costs of stability, manipulation, erasure, dissipation, and work coupling.	Paper 1 | Grounding	Distinctions are physically embodied, not immaterial labels.
Emergent Boundary Condition (EBC)	Organisation-generated constraint functioning effectively as a boundary condition for lower-level components.	Paper 1 | Grounding	EBC is generated by organisation; it is not a new substance.

Term	Controlled definition	Canonical home / type	Relationship and guardrail
Constrained Thermodynamic State Space (CTSS)	Subset of thermodynamic macrostates and trajectories accessible under emergent boundary conditions and organisational constraints.	Paper 1 | Grounding	CTSS names state-space restriction, not visual complexity.
Constrained Thermodynamic System (CTS)	BC-defined system whose realised trajectory occupies CTSS because of EBC or organisational constraints.	Paper 1 | Grounding	CTS is the system instance; CTSS is the regime descriptor.
Driven Thermodynamic State Space (DTSS)	Thermodynamic regime in which a system is maintained away from equilibrium by sustained energy and/or matter throughput.	Paper 1 | Grounding	DTSS requires driving, not transient constraint alone.
Driven Thermodynamic System (DTS)	BC-defined system whose trajectory is embedded in DTSS and maintained away from equilibrium by sustained driving.	Paper 1 | Grounding / Life	DTS is horizon-relative; sustained throughput must be specified.
Shannon Information Theory (SIT)	Regime in which information is discriminable distinctions over a channel relative to alphabet, noise model, and receiver/locus discrimination capacity.	Paper 1 | Grounding	Do not treat mere difference as information without channel-relative discriminability.
Reference alphabet	Set of symbol classes induced by physically supported tokenisation at the reference scale.	Paper 1 | Grounding	Alphabet is supported only where classes are stable and reproducible.
Tokenisation	Physically implementable classification rule assigning admissible states or histories to labels under boundary, constraint, driving, and noise conditions.	Paper 1 | Grounding	Technical tokenisation is not arbitrary external coding.
Baseline Dynamics (BD)	Intervention-defined comparator family preserving relevant context while disabling the organisation, channel, tokenisation, or pathway under test.	Paper 1 | Comparator	BD is not nothing; it is disciplined contrast.
BD-family comparator	Comparator intervention that ablates, scrambles, neutralises, resets, bypass-controls, or otherwise disables the proposed mediating organisation while preserving comparability.	Paper 1 | Comparator	Weak comparators let false NTC and life claims survive.
Information Processing Locus (IPL)	Organisation whose integrity is required for downstream trajectory selection to depend on the relevant distinction.	Paper 1 | Localisation	IPL is not consciousness, cognition, central control, symbolic representation, or the Attribution Locus by default.
Life	Driven thermodynamic constraint-maintenance supported by IPL-	Paper 1 | Life threshold	Life is stricter than information, NTC, metabolism, reproduction, feedback,

Term	Controlled definition	Canonical home / type	Relationship and guardrail
	mediated NTC.		persistence, adaptation, or familiarity alone.
Living System	System satisfying the life discriminator over the relevant operational horizon.	Paper 1 | Life	Do not infer life from complexity, activity, or lineage alone.
Physics-chemistry-life transition	Emergent-regime transition in which chemical organisation becomes audit-incomplete without the discriminator question of distinction-conditioned maintenance.	Paper 1 | Origin framing	Life does not leave physics or chemistry; chemistry alone does not settle life-status.

B. Attribution architecture, boundary, locus, and completion

Term	Controlled definition	Canonical home / type	Relationship and guardrail
Candidate frame	Provisional reference-indexed delimitation of the system, subsystem, process, relation, remnant, or coupled organisation proposed as the site of attribution.	Paper 2 | Attribution	The frame states what is being tested; it does not establish the living locus.
Frame correction	Adjustment of the candidate frame when the initial delimitation fails to match the maintained regime, completion relation, or continuity path.	Paper 2 | Attribution	Frame correction is part of attribution, not a procedural defect.
Reference-indexed attribution	Attribution specifying locus, boundary, interface, scale, horizon, driving, comparator assumptions, and continuity relation strongly enough for the claim.	Paper 2 | Attribution	The disciplined question is alive as what locus, over what horizon, through what boundary.
Positive exclusion	Output stating that a tested relation is not warranted under the stated reference conditions, rather than merely being unknown.	Paper 2 / 3 | Attribution output	Do not use uncertainty as negative confirmation; distinguish exclusion from residual.
Informational regime	Physically supported organisation in which identity-relevant distinctions are preserved, made operative, resumed, transmitted, completed, or closed under reference conditions.	Paper 2 | Attribution	Not every describable difference is an informational regime.
Informational regime attribution	Evaluation of the identity-bearing distinctions a candidate preserves and the regime in which those distinctions become operative, resumable, completable, or closed.	Paper 2 | Attribution	Observer-assigned meaning is not enough.
Life-realisation	Actual occurrence of the Paper 1 life relation within a candidate frame as	Paper 2 | Threshold attribution	Life-realisation in a frame does not prove the frame itself is the living

Term	Controlled definition	Canonical home / type	Relationship and guardrail
	driven constraint-bearing organisation maintained, redirected, or completed through localisable distinction-conditioned organisation.		locus.
Realised informational throughput	Identity-relevant distinctions presently operative in maintenance, redirection, or completion of a life-realising regime.	Paper 2 | Throughput	Stored content alone is not realised throughput.
Maintained boundary	Interface through which a life-realising or life-relevant informational regime preserves its organised distinction from what lies outside it.	Paper 2 | Boundary	Boundary is functional and informational, not merely a line around matter.
Attribution Locus	Operational unit to which a life-relevant regime relation is attributed: active life-realisation, intrinsic resumability, potential throughput, target-locus closure, reconstruction, incorporation, positive exclusion, or residual.	Paper 2 | Locus	The Attribution Locus is the bearer of attribution; it is not automatically the IPL, visible object, container, genome, or lineage.
Functional sublocus	Component whose organisation contributes to a larger life-realising regime without thereby becoming a life form at the claimed scale.	Paper 2 | Locus	Functional necessity is not life-status.
Nested locus	Lower-order locus existing within or participating in a higher-order locus while retaining its own attribution relation.	Paper 2 | Locus / topology	Nested attribution does not imply contradiction.
Distributed locus	Locus whose maintained regime depends on spatially extended coupling, scaffolding, or recurrent exchange.	Paper 2 | Locus	Distribution raises the burden to specify boundary, completion, and continuity.
DTS completion	Localisation of where the driven thermodynamic system is actually performed, intrinsically resumable, or extrinsically completable as a life-relevant regime.	Paper 2 | Completion	The question is where life-realising informational throughput becomes actual.
Resource dependence	Dependence on environmental matter, energy, substrate, or permissive conditions while the candidate organisation performs constitutive maintenance operations.	Paper 2 | Completion	Resource dependence does not weaken life-status by itself.
Scaffolded support	External support supplying stabilising conditions while the candidate	Paper 2 | Completion	Artificial support alone does not decide life-status.

Term	Controlled definition	Canonical home / type	Relationship and guardrail
	remains the locus whose identity-bearing organisation is maintained.		
Constitutive dependence	Dependence in which another organised locus performs operations required to complete the candidate maintenance or throughput relation.	Paper 2 | Completion	Constitutive dependence changes attribution; it is not an automatic verdict.
Host completion	Extrinsic completion relation in which a host regime makes a candidate throughput operative.	Paper 2 | Completion / potential	Host completion is not free-phase Life.
Coupled completion	Case where no component alone completes the relevant regime but the organised relation between components does.	Paper 2 | Completion	Coupling does not automatically establish unity.
Higher-order locus	Coupled organisation that stabilises a maintained regime beyond its participating loci.	Paper 2 | Topology	Requires more than interaction or dependence.

C. Identity, continuity, primary ladder, and death/closure

Term	Controlled definition	Canonical home / type	Relationship and guardrail
Organisational identity	Continuity of the maintained organisation by which the same locus remains attributable through change, development, dormancy, repair, transformation, or terminal completion.	Paper 2 | Continuity	Identity is not mere material sameness or name persistence.
Intrinsic resumability	Same-locus capacity by which active life-realisation can resume from a continuity-preserving suspended or dormant condition under permissive conditions.	Paper 2 | Continuity	Intrinsic resumption is not extrinsic reconstruction.
Continuity-preserving suspension	Mode in which active throughput is reduced or suspended while identity-bearing organisation and intrinsic resumability remain preserved.	Paper 2 | Continuity	Suspension does not by itself imply Life-in-Potential or death.
Dormant Life	Continuity mode inside Life where active throughput is reduced or suspended but intrinsic same-locus resumability remains preserved.	Paper 2 | Continuity / class mode	Dormancy is not Life-in-Potential and not death.
Terminal active Life	Continuity mode inside Life where distinction-conditioned organisation is still completing a terminal regime even though future branch-space is narrowing.	Paper 2 | Continuity / class mode	Terminality modifies horizon; it does not remove Life before branch closure.

Term	Controlled definition	Canonical home / type	Relationship and guardrail
Potential informational throughput	Identity-bearing potential throughput preserved by a non-life-realised organisation into an admissible extrinsic life-realising completion pathway.	Paper 2 | Potential	Not weak life, mere biological material, stored sequence, trigger, or reconstructability.
Throughput identity	Continuity of identity-relevant distinctions from a non-life-realised candidate into later extrinsic completion where those distinctions become operative.	Paper 2 | Potential	Without throughput identity, Life-in-Potential is not warranted.
Lineage identity	Continuity relation of descent, copying, or historical derivation after organisational or throughput identity has been established.	Paper 2 | Continuity	Lineage does not settle present life-status.
Continuity status	Status of a target locus or throughput relation as active, dormant, terminal active, potential, or closed; uncertain statuses are carried in residual.	Paper 2 / 3 | Classification	Continuity status must be assigned before primary class closure.
Branch-closure	Closure of all future counterfactual branch-realisation for a target locus as that locus.	Paper 2 | Death / closure	Branch closure applies to the target identity, not every constituent.
Death / closed continuity	Closure status of a formerly living target locus whose future counterfactual branch-realisation as that locus has closed.	Paper 2 | Continuity status	Death is not a fourth primary class.
Closure output	Separate output route for death of a formerly living target locus: closed continuity / formerly living target locus / no further same-locus DTS completion / remnant or fragmentation topology / residual.	Paper 3 | Output form	Closure output prevents death from entering the primary-class field.
Post-death constituent reframing	Requirement to reframe remaining constituents after target-locus death rather than spreading the same status to all matter inside the former system.	Paper 2 | Death / attribution	A dead organism may contain living subloci, Life-in-Potential candidates, or Complex Chemistry.
Reconstruction	Cross-locus descriptor for later life-like or life-realising production after identity-bearing continuity has failed.	Paper 2 | Continuity descriptor	Reconstruction is not same-locus resumption.
Incorporation	Cross-locus descriptor for material entering another living regime without preserving the prior identity.	Paper 2 | Continuity descriptor	Incorporation is not survival.
Complex Chemistry	Primary class where the candidate may be complex, organised, reactive,	Paper 2 | Primary class	Biological derivation alone does not exceed Complex Chemistry.

Term	Controlled definition	Canonical home / type	Relationship and guardrail
	or biologically related but lacks active life-realisation, intrinsic resumability, and identity-bearing potential throughput.		
Life-in-Potential	Primary class for non-life-realised candidates preserving identity-bearing potential informational throughput into admissible extrinsic life-realising completion.	Paper 2 | Primary class	Life-in-Potential is narrow; it is not ordinary potential life.
Life as primary class	Primary class where the candidate is the Attribution Locus of active or intrinsically resumable regime maintenance.	Paper 2 | Primary class	Class assignment requires correct locus and continuity attribution.
Formal ladder	Three-class ladder: Complex Chemistry, Life-in-Potential, Life.	Paper 2 | Classification	Death, reconstruction, incorporation, topology, and uncertainty are not primary classes.

D. Procedure, output form, residual, and audit terms

Term	Controlled definition	Canonical home / type	Relationship and guardrail
Life Attribution Procedure	Diagnostic expression of the attribution canon, moving from frame to relation, locus, completion, continuity, class, topology, residual, and update.	Paper 3 | Procedure	Procedure applies the canon; it does not add a new life theory.
Reference preflight	Stage 0 of the procedure: states candidate, scale, boundary, horizon, interface, driving, discrimination/noise regime, comparator assumptions, and continuity question.	Paper 3 | Procedure stage	Without preflight, classification drifts between scales and horizons.
Candidate framing	Stage 1 of the procedure: states what is being tested and permits later frame correction.	Paper 3 | Procedure stage	The frame is not the answer.
Life-realisation threshold	Stage 2 of the procedure: tests driven constraint-bearing regime, operative distinction, and maintenance relevance.	Paper 3 | Procedure stage	Failure of present life-realisation does not end the audit.
Attribution Locus localisation	Stage 3 of the procedure: identifies the bearer of the regime relation under evaluation.	Paper 3 | Procedure stage	Life inside a frame is not Life of the frame.
DTS-completion localisation	Stage 4 of the procedure: identifies where the life-realising, resumable, or potential completion relation is	Paper 3 | Procedure stage	Dependence is too coarse; completion must be localised.

Term	Controlled definition	Canonical home / type	Relationship and guardrail
	performed.		
Identity and continuity determination	Stage 5 of the procedure: determines whether identity-bearing throughput is active, dormant, terminal active, potential, closed, or uncertain with residual.	Paper 3 | Procedure stage	Dormancy, potential, closure, reconstruction, and incorporation must not be collapsed.
Primary class assignment	Stage 6 output where Complex Chemistry, Life-in-Potential, or Life is assigned after preceding burdens are met.	Paper 3 | Procedure stage	Death, topology, and uncertainty must not enter the primary ladder.
Primary-class deferral	Audit result where primary-class assignment would overstate support and the class field is withheld with residual and update condition.	Paper 3 | Output form	Deferral is not a fourth ladder value.
Topology and relationship assignment	Stage 7 output describing relations among already-attributed loci.	Paper 3 | Procedure stage	Topology follows attribution; it is not a verdict.
Standard attribution output	Output form: primary class or residual deferral / continuity status / attributed locus / DTS-completion relation / topology or relationship modifier / residual.	Paper 3 | Output form	Separate fields prevent a naked noun from replacing the attribution relation.
Residual	Disciplined remainder identifying the local missing discriminator condition and update condition.	Paper 3 | Residual	Residual is not a class, continuity status, topology modifier, explanation, or hidden verdict.
Residual inventory	List of residual types by missing discriminator condition: frame, reference condition, threshold, operative distinction, comparator, Attribution Locus, DTS completion, continuity, throughput identity, closure, topology, or constituent audit.	Paper 3 | Residual	Inventory prevents uncertainty from becoming a hidden class.
Update condition	Observation, intervention, comparator result, continuity demonstration, or completion-path demonstration that would change the attribution.	Paper 3 | Residual	Every residual requires an update condition.
Strength marker	Optional marker such as strong, provisional, weak, or primary-class deferral summarising support without replacing residual.	Paper 3 | Output form	Strength markers must not create false precision.
Exemplar desktop study	Stylised application of the procedure to an edge-case candidate frame rather than a final empirical verdict for all instances of a named category.	Paper 3 | Edge-case discipline	Examples are conditional on reference frame, scale, horizon, and comparator assumptions.

4. Misuse compression

Misuse	Why it fails	Controlled correction
Life = complexity / metabolism / reproduction / adaptation	These may be cues or mechanisms but do not state the discriminator.	Require driven constraint-maintenance supported by IPL-mediated NTC.
Life inside frame = Life of frame	A frame may contain a life-realising locus without being the locus.	Localise the Attribution Locus before primary class.
Dormant = Life-in-Potential	Dormancy preserves intrinsic same-locus resumability.	Use Life with dormant continuity where intrinsic resumability remains open.
Death = fourth class	Death closes a formerly living target locus; it does not classify all remnants.	Use closure output and reframe constituents.
Potential = any stored sequence or biological material	Life-in-Potential requires throughput identity into admissible extrinsic completion.	Require identity-bearing potential informational throughput.
Uncertain = unresolved verdict	Uncertainty is not a canonical field value except as a field condition carried in residual.	State the missing discriminator condition and update condition.
Positive exclusion = uncertainty	A relation can be excluded under stated conditions without every broader question being solved.	Separate positive exclusion from residual deferral.

5. Change log

Issue	Date	Change	Authority
Issue 1	2026-09-22	Final Issue 1 source-lock release aligned to the fixed literal heading locators, the recorded final filenames and hashes for GOT-V1-1-1, GOT-V1-1-2, and GOT-V1-1-3, and final SD-01. Controlled definitions, terminology, and canonical ownership remain unchanged.	Finalised source-locked Part 1 primary/support set, Issue 1.

6. Release/revision checklist

- Does each term remain tied to a canonical home?
- Does every compressed definition preserve the discriminator conditions?
- Does the glossary distinguish IPL from Attribution Locus?
- Does Life-in-Potential remain narrower than ordinary potential life?

- Are death/closure, reconstruction, incorporation, topology, and uncertainty excluded from the primary ladder?
- Are positive exclusion and residual deferral separated?
- Does every residual term require a local missing condition and update condition?
- Does the glossary avoid importing exported full-series TEM terms?