

Purple / Project completeness

114 additional project profiles

Bangel is the language; MJos is the operating system. The MJos Predictive Model retains its distinct project identity. Elsa is the compiler, JP admission is independent, and Joanna handles admitted execution and processing.

These papers reconcile recovered source definitions, historical discussions and expressly requested profiles. Source status and proposed language contracts remain explicit. Gold and Indigo follow recovered overview rules; they are new reconstructions. White papers are excluded.

This local review edition does not establish deployed software, validated physical performance or clinical capability. Original private chat transcripts are not included.

Elsa Compiler - Syntax and typed expression

MJPE-COMPLETE-20260925-ELSA-COMPILER-PURPLE | Source-backed documentary sequence — execution not rerun

Elsa Compiler / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- SourceText: UTF-8 Bangel source
- GrammarProfile: explicit version
- Effects: declared closed set
- CompileResult: JP-IR or source-spanned diagnostic

PRECONDITION

The source unit declares its Bangel grammar, dependencies and effects, and its exact bytes are available.

SEMANTIC OBLIGATION

Parse source, resolve names and modules, check types, units and effects, then lower accepted syntax to the declared JP representation. Preserve source spans and precise diagnostics on refusal.

POSTCONDITION

Return typed JP-IR or a compile refusal. Compilation does not admit execution or grant MJ permission.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Current compiler in the Bangel toolchain; carries the historical semantic-recovery role.

IMPLEMENTATION CHECK

An unresolved name, incompatible unit or prohibited recursion must yield its contract diagnostic rather than usable admitted IR.

DISCOVERY NAMES

Elsa/1; ELSA-SEMANTICS

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- [language/python/src/bangel/compiler.py · line 59](#)
<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/python/src/bangel/compiler.py#L59>
- [specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 14](#)
<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/ROLE-CONTRACT-RECONCILIATION.md#L14>
- Recovered nonwhite collection, page 1375
<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1375>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Compiles Bangel source and checks its meaning before producing the typed representation consumed by JP and Joanna.

SOURCE REFERENCES

[language/python/src/bangel/compiler.py · line 59](#)

[specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 14](#)

[Recovered nonwhite collection, page 1375](#)

JP Representation - Syntax and typed expression

MJPE-COMplete-20260925-JP-REPRESENTATION-PURPLE | Source-backed documentary sequence — execution not rerun

JP Representation / Purple

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TYPED BANGEL BINDING

- RepresentationProfile: JP-IR/1 or separately named profile
- CanonicalBytes: exact serialization
- SourceDigest: SHA-256
- AdmissionResult: accepted or rejected with reason

PRECONDITION

A representation declares its own protocol, canonical bytes, source lineage, types and bounded effects.

SEMANTIC OBLIGATION

Independently check the closed envelope, canonical digest, types, cross-field relationships and resource limits. Keep JP-IR/1, JP-CIR and proposed architecture profiles separate.

POSTCONDITION

Return admission evidence for the exact representation. A digest match establishes identity, not semantic admission or permission.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

JP-IR/1, JP-CIR and proposed JPArchitectureIR retain separate contracts.

IMPLEMENTATION CHECK

Recompute a digest after mutating an authority, type or effects field; inconsistent content must still fail independent admission.

DISCOVERY NAMES

JP; JP-IR/1; JP-CANON

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source_and_distinct_proposals.

Do not flatten older domain-specific JP compiler roles or JP-CIR/architecture profiles into the general representation contract.

SOURCE REFERENCES

- specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 15

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/ROLE-CONTRACT-RECONCILIATION.md#L15>

- Recovered nonwhite collection, page 1302

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1302>

- Recovered nonwhite collection, page 1376

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1376>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Typed representation, admission and validation boundary between language compilation and runtime execution.

SOURCE REFERENCES

[specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 15](#)

[Recovered nonwhite collection, page 1302](#)

[Recovered nonwhite collection, page 1376](#)

Joanna Processing - Syntax and typed expression

MJPE-COMplete-20260925-JOANNA-RUNTIME-PURPLE | Source-backed documentary sequence — execution not rerun

Joanna Processing / Purple

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TYPED BANGEL BINDING

- AdmittedIR: independently verified JP
- RuntimeBudget: bounded resource declaration
- InputBinding: typed values and source roots
- Receipt: actual status and execution identity

PRECONDITION

Independent admission accepted the exact JP representation and execution has a declared input binding and resource budget.

SEMANTIC OBLIGATION

Execute bounded Joanna operations while preserving typed unknowns, stage evidence and runtime-limit failures.

POSTCONDITION

Return a digest-bound computation receipt with its actual status. HOLD stays visible even when a command exits successfully; the receipt is not action permission.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Current Bangel runtime; JO appears as predecessor runtime lineage but also has a separately documented historical proof role.

IMPLEMENTATION CHECK

An exhausted budget, missing measurement or unadmitted representation must not become an unrestricted successful effect.

DISCOVERY NAMES

Joanna/1; Joanna-Receipt/1; Joanna Processing; Joanna compilation processing

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- language/python/src/bangel/runtime.py · line 28

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/python/src/bangel/runtime.py#L28>

- specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 16

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/ROLE-CONTRACT-RECONCILIATION.md#L16>

- language/python/src/bangel/identity.py · line 14

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/python/src/bangel/identity.py#L14>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Executes admitted Bangel programs and records outcomes and reconciliation evidence.

SOURCE REFERENCES

[language/python/src/bangel/runtime.py · line 28](#)

[specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 16](#)

[language/python/src/bangel/identity.py · line 14](#)

JO Proof and Verification - Syntax and typed expression

MJPE-COMPLETE-20260925-JO-PROOF-PURPLE | Source-backed documentary sequence — execution not rerun

JO Proof and Verification / Purple

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TYPED BANGEL BINDING

- ProofScope: named historical contract
- TypedCAPO: exact representation identity
- EvidenceSet: assertion-bound artifacts
- VerificationReceipt: result and unresolved prerequisites

PRECONDITION

A historical JO obligation names the type, formula, evidence or bounded execution assertion being reviewed.

SEMANTIC OBLIGATION

Compare evidence with that precise assertion and retain its source-profile meaning. Link runtime lineage to Joanna without equating every historical JO proof role with current execution.

POSTCONDITION

Return a scoped verification record, HOLD for missing evidence or DENY for a failed permission boundary.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Preserve the source JO role while linking its runtime lineage to current Joanna.

IMPLEMENTATION CHECK

A receipt for a different formula or profile must not satisfy this obligation without an explicit verified mapping.

DISCOVERY NAMES

JO; JO-RUNTIME; JO_PROOF_RECEIPT

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_historical_reference.

Do not state that every JO verification meaning is identical to Joanna execution.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1304

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1304>

- Recovered nonwhite collection, page 7062

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=7062>

- Recovered nonwhite collection, page 1378

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1378>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1304](#)

[Recovered nonwhite collection, page 7062](#)

[Recovered nonwhite collection, page 1378](#)

MJ Governing Root - Syntax and typed expression

MJPE-COMplete-20260925-MJ-GOVERNING-ROOT-PURPLE | Source-backed documentary sequence — execution not rerun

MJ Governing Root / Purple

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TYPED BANGEL BINDING

- Purpose: declared governing scope
- EvidencePacket: participant receipts
- ResourceLease: bounded proposed allocation
- Decision: scoped permit, hold or deny

PRECONDITION

A requested effect has a declared purpose, reviewed evidence and an applicable implemented admission profile.

SEMANTIC OBLIGATION

Reconcile participant results and resource bounds at the MJ boundary. Preserve refusals and missing prerequisites; umbrella metadata does not implement a root kernel, CAPO bus or lease ledger.

POSTCONDITION

Record the bounded decision supported by the implemented profile, or HOLD the proposed host behavior while its contract remains incomplete.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Distinct from the MJ Physics Engineering company identity and from the implemented MJ Decision plugin.

IMPLEMENTATION CHECK

Without the applicable lease or final admission evidence, a participant PASS must not substitute for MJ admission.

DISCOVERY NAMES

MJ root; MJ.23.R2.ACT

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_profile_partial_integration.

The metadata alone does not establish a completed root kernel, CAPO bus or lease ledger.

SOURCE REFERENCES

- specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 17

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/ROLE-CONTRACT-RECONCILIATION.md#L17>

- Recovered nonwhite collection, page 1299

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1299>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Governs whether an independently validated action may proceed; prediction does not grant execution authority.

SOURCE REFERENCES

[specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 17](#)

[Recovered nonwhite collection, page 1299](#)

Bangel Robotics - Syntax and typed expression

MJPE-COMplete-20260925-BANGEL-ROBOTICS-PURPLE | Source-backed documentary sequence — execution not rerun

Bangel Robotics / Purple

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TYPED BANGEL BINDING

- Observation: value or UNKNOWN with unit
- AcquisitionTime: timestamp and clock domain
- RobotContext: declared coordinate frame
- Advisory: result, uncertainty and effect boundary

PRECONDITION

A robotics measurement declares quantity, units, coordinate frame, acquisition context and source profile.

SEMANTIC OBLIGATION

Express bounded measurement logic in Bangel; Elsa compiles, JP admission checks the representation and Joanna provides computation evidence. Distinguish observed state, simulation and planned hardware bindings.

POSTCONDITION

Return a measurement or advisory with uncertainty. Physical actuation requires a separate evidenced host contract.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Domain identity of Bangel Language; Teal Robotics is a separate bounded plugin.

IMPLEMENTATION CHECK

A missing observation or changed coordinate frame without a transform must remain a typed error or HOLD.

DISCOVERY NAMES

Bangel Robotics Programming Language

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: `implementation_source_domain_identity`.

Software calculations and receipts do not establish a physical robot or actuation backend.

SOURCE REFERENCES

- README.md · line 1

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/README.md#L1>

- [language/python/src/bangel/identity.py](#) · line 6

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/python/src/bangel/identity.py#L6>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Applies the measurement language to robotics examples with explicit PASS, HOLD and missing-measurement behavior.

SOURCE REFERENCES

[README.md](#) · line 1

[language/python/src/bangel/identity.py](#) · line 6

Teal Robotics - Syntax and typed expression

MJPE-COMPLETE-20260925-TEAL-ROBOTICS-PURPLE | Source-backed documentary sequence — execution not rerun

Teal Robotics / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- Proposal: preserved shadow-control schema
- MinorityRisk: PMOS-MINORITY-GATE/1 input
- IndependentReview: separately bound verdict
- GateOutcome: PASS, HOLD or DENY

PRECONDITION

A simulation or shadow-control proposal matches the preserved minority-risk profile and required gate evidence is available.

SEMANTIC OBLIGATION

Apply the preserved Bangel risk source and near-miss templates through Elsa, independent JP admission and Joanna. Keep source hashes, thresholds and independent vetoes explicit.

POSTCONDITION

Return the bounded proposal gate result. No continuous-time control-barrier proof, physical actuation or live-trading capability is inferred.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

A distinct plugin under Bangel Robotics and the MJos predictive integration.

IMPLEMENTATION CHECK

A known near miss or absent independent review must not be bypassed by an attractive forecast.

DISCOVERY NAMES

Teal Robotics Verified Control Barrier Function; PMOS-MINORITY-GATE/1

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

The manifest explicitly says no completed independent family runtime, no continuous-time CBF proof, no live trading and no physical actuation.

SOURCE REFERENCES

- plugins/mj_predictive/src/mj_predictive/_teal/PLUGIN.json · line 1
https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/plugins/mj_predictive/src/mj_predictive/_teal/PLUGIN.json#L1

SOURCE REFERENCES

[plugins/mj_predictive/src/mj_predictive/_teal/PLUGIN.json · line 1](#)

Bangel Native SDK - Syntax and typed expression

MJPE-COMplete-20260925-BANGEL-NATIVE-SDK-PURPLE | Source-backed documentary sequence — execution not rerun

Bangel Native SDK / Purple

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TYPED BANGEL BINDING

- SourceText: filename and Bangel content
- CompilerInterface: IElsaCompiler
- CompilationResult: typed IR or diagnostic
- ManagedReceipt: source-bound Joanna result

PRECONDITION

A C# host supplies Bangel source and explicitly selects a managed compiler or separate reference-process client.

SEMANTIC OBLIGATION

Use the syntax, semantics, Elsa compiler, admission, Joanna runtime and numerics boundaries; bind results to the actual package and source revision.

POSTCONDITION

Return typed diagnostics or an admitted computation receipt. Documentation alone does not establish a fresh .NET build or cross-host parity.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Developer toolkit used alongside Engineering Studio; packages keep their own versioned contracts.

IMPLEMENTATION CHECK

Compile an incompatible-unit example and inspect its diagnostic; establish native execution only with fresh package hashes and results.

DISCOVERY NAMES

Bangel.Sdk; Bangel for C# and .NET

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- language/dotnet/README.md · line 7

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/dotnet/README.md#L7>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Managed compiler/runtime integration, SDK, command-line tools and a bounded C# translation surface.

SOURCE REFERENCES

[language/dotnet/README.md · line 7](#)

Bangel API - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-API-PURPLE | Source-backed documentary sequence — execution not rerun

Bangel API / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- Protocol: BANGEL-API/1
- Request: closed operation envelope
- ProgramIdentity: source digest
- Response: typed result or diagnostic

PRECONDITION

A client selects a supported API operation and provides its required source or representation fields.

SEMANTIC OBLIGATION

Validate the closed request schema, retain exact compiler/runtime protocol identities and return the relevant source-bound result. Host access and transport policy remain separate.

POSTCONDITION

Return a typed response or rejection; interface discovery does not establish a public production service.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Interface of Bangel Language, not a substitute compiler or runtime.

IMPLEMENTATION CHECK

Reject unknown protocols and extra fields rather than silently treating them as compatible current requests.

DISCOVERY NAMES

BANGEL-API/1

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: `implementation_source`.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- `language/python/src/bangel/identity.py` · line 11

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/python/src/bangel>

/identity.py#L11

SOURCE REFERENCES

[language/python/src/bangel/identity.py](#) · line 11

MJPS Thermodynamics - Syntax and typed expression

MJPE-COMplete-20260925-BANGEL-THERMOELECTRIC-PURPLE | Source-backed documentary sequence — execution not rerun

MJPS Thermodynamics / Purple

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TYPED BANGEL BINDING

- Profile: Bangel 0.1 MJPS
- Temperature: expected, anticipated or delivered
- Calibration: verified or unverified
- ProposalReceipt: PASS_PROPOSAL or HOLD

PRECONDITION

A thermoelectric reference program declares its 0.1 domain grammar and bounded module, observation and demand inputs.

SEMANTIC OBLIGATION

Apply the profile's steady thermoelectric calculations and proposal logic, preserving unknown temperatures, calibration evidence and its separate IR/receipt contract.

POSTCONDITION

Return a simulation proposal or HOLD with physical and authority effects NONE. This does not establish a physical controller or the full general-language grammar.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Thermodynamic research identity with a recovered bounded steady thermoelectric reference component. The general Bangel 1.0 implementation remains a separate profile.

IMPLEMENTATION CHECK

Unknown temperature and unverified calibration must remain HOLD rather than physical control commands.

DISCOVERY NAMES

MJPS; Bangel Measurement Reference; Bangel Thermoelectric Reference; MJPS thermodynamic
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

No physical controller, board backend or actuation is established.

SOURCE REFERENCES

- components/thermoelectric-reference/README.md · line 1

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/components/thermoelectric-reference/README.md#L1>

- components/thermoelectric-reference/README.md · line 31

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/components/thermoelectric-reference/README.md#L31>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Package-native thermoelectric simulation combining Seebeck harvesting, Peltier heat pumping, uncertainty and bounded thermal/electrical optimization.
- Historical 0.2 package; physical effect and authority effect remained NONE, global JP acceptance MERGE_CANDIDATE, and bench/HIL/field gates remained held.
- Historical evidence has not been rerun in this discovery pass.

SEPARATE HISTORICAL CONTRACT OUTLINE

- ThermalBoundary — module and operating conditions
- ThermoelectricModel — Seebeck/Peltier parameters
- UncertaintyEnvelope — bounded temperature and model inputs
- SimulationReceipt — result, assumptions and effect ceiling

IF

A thermoelectric module is evaluated under declared thermal and electrical conditions.

HOW

Apply the documented package formulas and uncertainty bounds, keeping steady and transient coverage distinct.

THEN

Return the bounded simulation result and retain the separate hardware-validation requirements.

This historical outline is separate from the current-source contract above. It does not establish native integration or newly executed results.

SOURCE REFERENCES

<components/thermoelectric-reference/README.md> · line 1

<components/thermoelectric-reference/README.md> · line 31

MJmri MRI Imaging - Syntax and typed expression

MJPE-COMplete-20260925-MJMRI-PURPLE | Source-backed documentary sequence — execution not rerun

MJmri MRI Imaging / Purple

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TYPED BANGEL BINDING

- ResearchCase: source identity and evidence class
- Quantity: semantic unit and uncertainty
- Profile: authored MJMRI version
- ClinicalUse: false

PRECONDITION

A non-clinical imaging research case declares its source artifacts, units, profile and intended bounded calculation.

SEMANTIC OBLIGATION

Preserve MRI measurement and DICOM interoperability obligations. Treat domain forms as research contracts until Elsa integration, representation generation and Joanna processing are demonstrated.

POSTCONDITION

Return a documentary case or bounded research proposal, preserving unknowns and implementation gaps. No diagnosis, patient release or MRI hardware control is created.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Authored MRI imaging research profiles retain distinct representation and receipt contracts. Elsa is the compiler identity; native integration and Joanna processing remain separately evidenced obligations.

IMPLEMENTATION CHECK

Camera-derived images and unexecuted fixtures must not be promoted to genuine MR acquisition or clinical evidence.

DISCOVERY NAMES

MJmri; JP-IR/MJMRI-1; MJMRI; MJmri MRI imaging

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

An authored research contract or fixture is recovered. Native implementation and execution remain separate obligations. Recovered status: authored_candidate.

Non-clinical research only; recovered authored fixtures do not establish native execution or patient use.

SOURCE REFERENCES

- specs/recovered/BANGEL-0.1-MJMRI-NATIVE-PROFILE.md · line 1

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/recovered/BANGEL-0.1-MJMRI-NATIVE-PROFILE.md#L1>

- docs/history/b01/BANGEL-PROFILE-AUDIT.md · line 7

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/docs/history/b01/BANGEL-PROFILE-AUDIT.md#L7>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Named domain family included in the shared MJPS and Drum Sequencer registry.
- Historical scope: Mobile MRI access, representation, DICOM/FHIR interoperability and research reconstruction lineage. Cumulative 0.3 optical/mobile package was authored/reference work; native toolchain/device execution and clinical validation remained pending.
- Native JP compiler runs were explicitly zero at B02–B10; current Elsa/profile reconciliation remains unresolved.
- Phone optical pixels, inferred surface geometry, synthetic anatomy priors and genuine MR evidence remain distinct.
- B21–B25 continuation was requested but no resulting implementation was recovered.

SOURCE REFERENCES

[specs/recovered/BANGEL-0.1-MJMRI-NATIVE-PROFILE.md · line 1](https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/recovered/BANGEL-0.1-MJMRI-NATIVE-PROFILE.md#L1)

[docs/history/b01/BANGEL-PROFILE-AUDIT.md · line 7](https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/docs/history/b01/BANGEL-PROFILE-AUDIT.md#L7)

MJMRI Optical Research - Syntax and typed expression

MJPE-COMPLETE-20260925-MJMRI-OPTICAL-PURPLE | Source-backed documentary sequence — execution not rerun

MJMRI Optical Research / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- OpticalFrame: pixels and acquisition metadata
- EvidenceClass: optical, inferred surface, synthetic prior or MR
- Transform: disclosed source-preserving operation
- Output: non-clinical research representation

PRECONDITION

An optical frame has a source identity and is explicitly classified as camera evidence.

SEMANTIC OBLIGATION

Retain original pixels, label transformations and distinguish inferred surface geometry, synthetic anatomy priors and genuine MR evidence. Abstain beyond the input's evidence class.

POSTCONDITION

Return a labeled optical or surface-research artifact, without claiming unseen anatomy, MR signal or a clinical result.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Specialized MJMRI profile; camera evidence is not MRI.

IMPLEMENTATION CHECK

A synthetic optical fixture must retain its class rather than being relabeled as acquired MR.

DISCOVERY NAMES

MJMRI Mobile Optical Research

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

An authored research contract or fixture is recovered. Native implementation and execution remain separate obligations.

Recovered status: authored_candidate.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- specs/recovered/BANGEL-0.1-MJMRI-MOBILE-OPTICAL-RESEARCH-PROFILE.md · line 1
<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/recovered/BANGEL-0.1-MJMRI-MOBILE-OPTICAL-RESEARCH-PROFILE.md#L1>

SOURCE REFERENCES

[specs/recovered/BANGEL-0.1-MJMRI-MOBILE-OPTICAL-RESEARCH-PROFILE.md · line 1](#)

Cubix - Syntax and typed expression

MJPE-COMplete-20260925-CUBIX-PURPLE | Source-backed documentary sequence — execution not rerun

Cubix / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- SourceRoot: image identity
- PixelBounds: validated interval
- GridIndex: multiresolution cell
- CellLineage: parent and source references

PRECONDITION

A spatial cell declares its source frame, pixel bounds, grid index and parent resolution.

SEMANTIC OBLIGATION

Bind cell/node points to the same source root, validate bounds and preserve multiresolution lineage without extending observation below validated resolution.

POSTCONDITION

Return a rooted external-scene cell or HOLD invalid lineage or bounds. The cell does not identify unseen tissue.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Governed representation inside MJMRI Optical Research, not a separately recovered application.

IMPLEMENTATION CHECK

A changed source root or out-of-bounds cell must not be accepted as the same observed scene.

DISCOVERY NAMES

MJMRI-CUBIX-GRID/1

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

An authored research contract or fixture is recovered. Native implementation and execution remain separate obligations. Recovered status: `authored_contract`.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- specs/recovered/BANGEL-0.1-MJMRI-MOBILE-OPTICAL-RESEARCH-PROFILE.md · line 22

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/recovered/BANGEL->

SOURCE REFERENCES

[specs/recovered/BANGEL-0.1-MJMRI-MOBILE-OPTICAL-RESEARCH-PROFILE.md](#) · line 22

MJ Memory Kernel Adapters - Syntax and typed expression

MJPE-COMPLETE-20260925-MJ-MEMORY-KERNEL-PURPLE | Source-backed documentary sequence — execution not rerun

MJ Memory Kernel Adapters / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- Namespace: bound memory context
- Generation: monotonic identifier
- Lifecycle: QUIESCE, SEAL, CHECKPOINT, DETACH, RECLAIM
- Checkpoint: canonical source-bound hash

PRECONDITION

A memory operation addresses an explicit namespace, frame, generation and allowed lifecycle transition.

SEMANTIC OBLIGATION

Apply Bangel transition/access rules through Elsa, independent JP admission and Joanna; bind stored evidence to checkpoints, retain prior generations and assess updates using held-out evidence.

POSTCONDITION

Return a lifecycle receipt or non-installing update assessment. No stage is skipped, old ID reused or model automatically installed.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Component of MJ Memory Recall, with non-installing update assessment.

IMPLEMENTATION CHECK

Reject reclaim before a valid checkpoint and checkpoints from another namespace without deleting retained records.

DISCOVERY NAMES

Self-healing kernel adapter; MJ-Memory-Update/0.1.0

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

Not a bootable operating-system kernel or automatic model installer.

SOURCE REFERENCES

- [plugins/mj_memory_recall/docs/KERNEL.md](#) · line 1

https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/plugins/mj_memory_recall/docs/KERNEL.md#L1

- [plugins/mj_memory_recall/docs/KERNEL.md](#) · line 19

https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/plugins/mj_memory_recall/docs/KERNEL.md#L19

SOURCE REFERENCES

[plugins/mj_memory_recall/docs/KERNEL.md](#) · line 1

[plugins/mj_memory_recall/docs/KERNEL.md](#) · line 19

MJ Football Playbook - Syntax and typed expression

MJPE-COMplete-20260925-MJ-FOOTBALL-PLAYBOOK-PURPLE | Source-backed documentary sequence — execution not rerun

MJ Football Playbook / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- SelectionId: original playbook identity
- SchematicFrame: declared bounds
- CurveGeometry: source points and curves
- RecallResult: candidate, similarity and uncertainty

PRECONDITION

A recall query supplies the original frame, an eligible playbook selection and available command-history context.

SEMANTIC OBLIGATION

Compare bounded episodic candidates and project source-backed geometry, preserving entity/relationship/context conflicts, curves and observation chronology.

POSTCONDITION

Return a physics-play analysis projection with its evidence or HOLD a context mismatch. Similarity is not calibrated probability or coaching approval.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Domain overlay used by MJ Memory Recall; schematic coordinates are not calibrated robot dynamics.

IMPLEMENTATION CHECK

Another coordinate frame or a later-unavailable observation must not enter the current recall decision.

DISCOVERY NAMES

MJ-Playbook-Projection/0.1.0

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- plugins/mj_memory_recall/README.md · line 1

https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/plugins/mj_memory_recall/README.md#L1

- plugins/mj_memory_recall/README.md · line 53

https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/plugins/mj_memory_recall/README.md#L53

RECOVERED HISTORICAL CONTEXT

- Historical scope: Maps football playbook geometry and actor paths into comparative prediction and neural node-space overlays.

SOURCE REFERENCES

[plugins/mj_memory_recall/README.md · line 1](#)

[plugins/mj_memory_recall/README.md · line 53](#)

MJ EGO REV - Syntax and typed expression

MJPE-COMPLETE-20260925-MJ-EGO-REV-PURPLE | Source-backed documentary sequence — execution not rerun

MJ EGO REV / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- EnergyEntry: source class and joules or UNKNOWN
- BatteryState: initial, capacity and grid energy
- ThermalState: initial and captured energy
- AuditRecord: prior root, payload and root

PRECONDITION

An energy-model request declares source classes, units, uncertainty, tolerances and current transition mode.

SEMANTIC OBLIGATION

Follow indexed Bangel energy-ledger and transition rules, preserve missing quantities and append source-bound receipts. Native/Bangel equivalence requires separate evidence.

POSTCONDITION

Return a bounded energy or transition outcome; a source index does not demonstrate a physical energy device.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Separate product from the associated core referenced by the later Teal library.

IMPLEMENTATION CHECK

Missing energy and forbidden transitions must stay held or rejected rather than being balanced with invented zeroes.

DISCOVERY NAMES

MJ-EGO-REV; Ego.Core

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

The later Teal library indexes named source modules and hashes. Discovery does not establish a fresh build, full integration or physical validation.

Recovered status: source_index_recovered.

Full associated source and fresh native execution were not recovered in this inventory pass.

SOURCE REFERENCES

- Later Teal source index, page 974

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=974

- Later Teal source index, page 977

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=977

- Later Teal source index, page 978

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=978

- Later Teal source index, page 979

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=979

RECOVERED HISTORICAL CONTEXT

- Historical scope: Vehicle-energy modeling and audit project with Bangel and C# implementation lineage.

SOURCE REFERENCES

[Later Teal source index, page 974](#)

[Later Teal source index, page 977](#)

[Later Teal source index, page 978](#)

[Later Teal source index, page 979](#)

MJos Quantum Security - Syntax and typed expression

MJPE-COMPLETE-20260925-MJOS-QUANTUM-SECURITY-PURPLE | Source-backed documentary sequence — execution not rerun

MJos Quantum Security / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- NoisePacket: source and observed bytes
- EntropyHealth: declared bounded tests
- RiskSignals: authentication, traffic and integrity
- KeyEvent: provision, rotation or compromise

PRECONDITION

A research protection event has a declared source, relevant entropy-health evidence and explicit integrity signals.

SEMANTIC OBLIGATION

Keep entropy health, risk policy, key lifecycle and receipts as distinct indexed components. Separate simulated input, validated external bits and hardware claims.

POSTCONDITION

Return a documentary protection outcome or hold. Indexed source does not establish measured quantum entropy, certified cryptography or a production guarantee.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related to the existing Quantum Systems and Hagar / Water Protection entries; older bridge and policy filenames retain private source provenance.

IMPLEMENTATION CHECK

Malformed noise evidence or a compromise signal must not become an unsupported safe-key claim.

DISCOVERY NAMES

mjos_qs; Quantum Security

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

The later Teal library indexes named source modules and hashes. Discovery does not establish a fresh build, full integration or physical validation.

Recovered status: source_index_recovered.

Index evidence does not establish current cryptographic assurance, hardware certification or quantum security.

SOURCE REFERENCES

- Later Teal source index, page 998

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=998

- Later Teal source index, page 1000

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=1000

- Later Teal source index, page 1003

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=1003

- Later Teal source index, page 1006

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=1006

- Later Teal source index, page 1007

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=1007

RECOVERED HISTORICAL CONTEXT

- Historical scope: Governed security architecture linking cryptographic migration, artifact integrity, entropy governance, bounded recovery and evidence receipts.

SOURCE REFERENCES

[Later Teal source index, page 998](#)

[Later Teal source index, page 1000](#)

[Later Teal source index, page 1003](#)

[Later Teal source index, page 1006](#)

[Later Teal source index, page 1007](#)

Mika / MK Physics - Syntax and typed expression

MJPE-COMplete-20260925-MIKA-PHYSICS-PURPLE | Source-backed documentary sequence — execution not rerun

Mika / MK Physics / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- Quantity: value, unit and uncertainty
- ControlVolume: declared boundary
- ScaleProfile: explicit scale
- PhysicsReceipt: applicable, not-applicable or HOLD

PRECONDITION

A JP representation identifies quantities, units, control volume, scale and available measurement evidence.

SEMANTIC OBLIGATION

Classify applicable physics, check dimensional compatibility and conservation boundaries, and carry uncertainty into the representation. Keep not-applicable distinct from a passed physical test.

POSTCONDITION

Return a scoped physics representation or unresolved requirement. A valid equation is not a measured physical result.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

Incompatible units or a missing control volume must produce a refusal or HOLD before physical interpretation.

DISCOVERY NAMES

Mika; MK; MK-PHYSICS

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1303

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1303>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1303](#)

Angels Safety - Syntax and typed expression

MJPE-COMPLETE-20260925-ANGELS-SAFETY-PURPLE | Source-backed documentary sequence — execution not rerun

Angels Safety / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- Domain: bounded safety scope
- Telemetry: source and timestamp
- SafetyRule: explicit trigger
- Receipt: observe, hold, deny, isolate or correct

PRECONDITION

A command or state change falls within an Angel's declared domain and required telemetry is available.

SEMANTIC OBLIGATION

Evaluate domain-specific observation and corrective rules; preserve independent hold/denial decisions and evidence for proposed correction.

POSTCONDITION

Return a safety receipt. A correction request does not create execution permission or expand the Angel's domain.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

Stale telemetry or an out-of-domain command must not become safety PASS merely because no fault was detected.

DISCOVERY NAMES

ANGELS; ANGELS-SAFETY

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1306

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1306>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1306](#)

Bellatrix Defense - Syntax and typed expression

MJPE-COMplete-20260925-BELLATRIX-PURPLE | Source-backed documentary sequence — execution not rerun

Bellatrix Defense / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- Intake: exact source and digest
- Challenge: bounded hostile-deviation check
- Posture: verified, unknown or failed
- QuarantineRecord: reason and scope

PRECONDITION

An intake, custody or execution boundary requires a defense challenge with known scope and evidence identity.

SEMANTIC OBLIGATION

Inspect integrity, schema, replay and scope evidence using the applicable contract; preserve independent challenge and quarantine outcomes without changing evidence truth.

POSTCONDITION

Return defense or quarantine evidence. Defense success grants neither general admission nor financial authority.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

Replay consumed evidence or alter a digest; preserve the rejection/quarantine reason.

DISCOVERY NAMES

BELLATRIX

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1307

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1307>

- specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md#L402>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Defense and admission boundary that checks whether a proposed action is safe and permitted before execution.

SOURCE REFERENCES

[Recovered nonwhite collection, page 1307](#)

[specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402](#)

Sister Prediction and Containment - Syntax and typed expression

MJPE-COMPLETE-20260925-SISTER-PURPLE | Source-backed documentary sequence — execution not rerun

Sister Prediction and Containment / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- StateStream: observations and clocks
- Forecast: source-bound advisory
- ReserveRequest: bounded capacity
- Binding: primary Sister and declared failover

PRECONDITION

A monitored profile declares its primary Sister, failure strategy, observations and reserve/containment scope.

SEMANTIC OBLIGATION

Model demand and anomalies, preserve predictive/simulation classes and propose buffers under the named profile. Keep pending GIN amendment implementation status explicit.

POSTCONDITION

Return forecast, reserve or containment evidence; HOLD missing or stale bindings. Simulation does not become observation or authorized physical containment.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

Removing the primary binding must hold downstream use until the declared failover supplies valid evidence.

DISCOVERY NAMES

SISTER; SISTER-CONTAINMENT

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1308

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1308>

- specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md#L402>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1308](#)

[specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402](#)

EVE Variance and Egress - Syntax and typed expression

MJPE-COMplete-20260925-EVE-PURPLE | Source-backed documentary sequence — execution not rerun

EVE Variance and Egress / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- Boundary: declared control surface
- FlowObservation: intake, capture and egress
- Residual: measured or UNKNOWN with unit
- VarianceLedger: source-bound differences

PRECONDITION

A profile declares its boundary and which intake, capture, leakage or egress quantities are actually observable.

SEMANTIC OBLIGATION

Account for variance and residuals with units and uncertainty; preserve unmeasured loss as unknown instead of silently closing the balance.

POSTCONDITION

Return an observation/egress ledger or HOLD incomplete evidence. A residual does not prove its physical cause.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

An omitted egress measurement must remain missing rather than disappearing from the balance.

DISCOVERY NAMES

EVE; EVE-SCREEN

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1309

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1309>

SOURCE REFERENCES

Recovered nonwhite collection, page 1309

Mary / M3 Routing - Syntax and typed expression

MJPE-COMPLETE-20260925-MARY-M3-PURPLE | Source-backed documentary sequence — execution not rerun

Mary / M3 Routing / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- AdmittedRequest: exact scope
- MJLease: bounded allocation
- CapacityEvidence: available resources
- ReturnReceipt: used and unused amounts

PRECONDITION

An admitted request has an applicable MJ lease and source-backed target capacity.

SEMANTIC OBLIGATION

Route the request and account for use, pooling and returns within the lease; mediate peer handoffs through the applicable admission boundary.

POSTCONDITION

Return routing/allocation evidence or HOLD unavailable capacity. M3 cannot mint resources, widen leases or bypass denial.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

Reject or bound a request exceeding its lease, and refuse expired lease reuse.

DISCOVERY NAMES

M3; Mary

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1310

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1310>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1310](#)

Mermaid Reconciliation - Syntax and typed expression

MJPE-COMplete-20260925-MERMAID-PURPLE | Source-backed documentary sequence — execution not rerun

Mermaid Reconciliation / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- CustodyReference: acquired evidence identity
- AccountEntry: typed amount and source
- ReconciliationState: explicit disposition
- Statement: source-bound period

PRECONDITION

A custody/accounting event supplies origin, acquisition record, account scope and required profile evidence.

SEMANTIC OBLIGATION

Preserve balances, custody lineage and reconciliation history; assess financial implications only within Mermaid's own boundary without redefining measurement mathematics.

POSTCONDITION

Return a scoped account or reconciliation record with disputes visible. It does not execute a transfer or issue a product permit.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

An unexplained difference or unbound custody reference must remain exposed rather than being erased.

DISCOVERY NAMES

MERMAID; MERMAID-RECON

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1311

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1311>

- specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md#L402>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Expresses financial meaning, claims, obligations, valuation and admission within the Bangel ecosystem.

SOURCE REFERENCES

[Recovered nonwhite collection, page 1311](#)

[specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402](#)

Shiva Capital Models - Syntax and typed expression

MJPE-COMPLETE-20260925-SHIVA-PURPLE | Source-backed documentary sequence — execution not rerun

Shiva Capital Models / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- CapitalPurpose: stated objective
- MermaidAccount: reconciled reference
- LiquidityRequirement: explicit bound
- CapitalProposal: non-executing distribution plan

PRECONDITION

A capital-model request declares purpose, liquidity constraints, account evidence and internal scope.

SEMANTIC OBLIGATION

Separate stability, investment and risk classifications; preserve reconciliation and independent reviews, treating distributions as model outputs.

POSTCONDITION

Return a bounded internal proposal or HOLD. No live transfer, market operation or external financial permission is created.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

An unreconciled account or absent liquidity requirement must not produce an executable distribution.

DISCOVERY NAMES

SHIVA

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1312

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1312>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1312](#)

Shekina Continuity - Syntax and typed expression

MJPE-COMPLETE-20260925-SHEKINA-PURPLE | Source-backed documentary sequence — execution not rerun

Shekina Continuity / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- PlacementRequest: artifact and scope
- Lease: bounded resources
- ReplicaSet: versioned identities
- FailoverPlan: declared source and target

PRECONDITION

Placement declares artifact versions, scope, resource bounds and continuity requirements.

SEMANTIC OBLIGATION

Model bounded placement, replication and failover with source/target receipts. Preserve tenant boundaries and distinguish plans from observed recovery.

POSTCONDITION

Return placement/continuity evidence or HOLD unavailable targets. Infrastructure location does not confer authority.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

Cross-scope replication or failover to an unadmitted target must not expand the original lease.

DISCOVERY NAMES

SHEKINA; SHEKINA-CONTINUITY

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1313

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1313>

- specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md#L402>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Distributed and cloud continuity component in the historical ecosystem architecture.

SOURCE REFERENCES

[Recovered nonwhite collection, page 1313](#)

[specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402](#)

Belle Engineering - Syntax and typed expression

MJPE-COMplete-20260925-BELLE-PURPLE | Source-backed documentary sequence — execution not rerun

Belle Engineering / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- DesignCAPO: source architecture
- PhysicsReceipt: applicable constraints
- Criterion: measurable feasibility requirement
- Proposal: alternative, assumptions and risk

PRECONDITION

A design request supplies architecture, physics evidence and measurable feasibility criteria.

SEMANTIC OBLIGATION

Review topology, assumptions and alternatives against the constraints; bind proposals to evidence and leave unsupported dimensions unresolved.

POSTCONDITION

Return an engineering proposal and risk note. Feasibility review does not prove physical performance or authorize manufacture.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

A missing material or scale assumption must remain a recorded uncertainty rather than an invented design value.

DISCOVERY NAMES

BELLE

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1314

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1314>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1314](#)

Aviator Workspace - Syntax and typed expression

MJPE-COMplete-20260925-AVIATOR-PURPLE | Source-backed documentary sequence — execution not rerun

Aviator Workspace / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- Workspace: tenant and scope
- MemberRole: explicit capability
- ProjectRecord: source-bound state
- DecisionRecord: author and evidence

PRECONDITION

An organizational request identifies workspace, role, project and intended record operation.

SEMANTIC OBLIGATION

Preserve decisions, knowledge references and role boundaries. Present evidence without turning measurements into ranking, punishment or financial permission.

POSTCONDITION

Return a bounded workspace/decision record or DENY an out-of-scope operation. Organizational context does not replace root authority.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

A valid local role must not authorize another tenant's project.

DISCOVERY NAMES

AVIATOR; AVIATOR-WORKSPACE

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1317

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1317>

- specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md#L402>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Workspace for building applications and interacting with the Bangel toolchain and governed artifacts.

SOURCE REFERENCES

[Recovered nonwhite collection, page 1317](#)

[specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402](#)

CHI Temporal Variance - Syntax and typed expression

MJPE-COMplete-20260925-CHI-PURPLE | Source-backed documentary sequence — execution not rerun

CHI Temporal Variance / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- ExpectedState: source and time
- ObservedState: acquisition evidence
- DeliveredState: separate event
- Variance: typed difference and reconciliation

PRECONDITION

A comparison identifies expected, observed, delivered and reconciled states under a named CHI profile.

SEMANTIC OBLIGATION

Preserve clocks, missing states and source-specific difference semantics; keep CHI distinct from GIN until an explicit verified mapping exists.

POSTCONDITION

Return temporal variance or HOLD incomparable states. Variance determines neither price nor execution permission.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

Incompatible clocks or a missing observation must not be represented as zero variance.

DISCOVERY NAMES

CHI

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

Do not automatically equate historical CHI with GIN; this pass recovered related temporal roles but no verified identity migration.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1318

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1318>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1318](#)

WATER Uncertainty - Syntax and typed expression

MJPE-COMplete-20260925-WATER-PURPLE | Source-backed documentary sequence — execution not rerun

WATER Uncertainty / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- Interval: lower/upper and unit
- VerifiedFloor: source-backed bound
- EvidenceLimit: known or unknown
- ClassificationProfile: named rule

PRECONDITION

An uncertainty classification supplies intervals, verified floors and evidence limits under the WATER family profile.

SEMANTIC OBLIGATION

Apply interval and unknown-state rules with their source bounds; distinguish this family from Hagar control and the water-protection application.

POSTCONDITION

Return a scoped uncertainty class or HOLD. Classification grants neither authority nor financial value.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Named family identity; separate from color-paper identity.

IMPLEMENTATION CHECK

Reversed interval bounds or missing required floors must reject or hold classification.

DISCOVERY NAMES

WATER

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

The WATER uncertainty family is not automatically identical to Hagar water-process control or the separate water protection product.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1319

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1319>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1319](#)

JP Semiconductor Phone - Syntax and typed expression

MJPE-COMPLETE-20260925-JP-SEMICONDUCTOR-PHONE-PURPLE | Source-backed documentary sequence — execution not rerun

JP Semiconductor Phone / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- ScaleProfile: semiconductor dimensions
- Intake: observed or simulated
- WakeReserve: energy and time
- BatteryState: charge and thermal evidence

PRECONDITION

A phone-scale design declares scale, intake, battery and wake/reserve assumptions.

SEMANTIC OBLIGATION

Represent static intake and solar-assist relationships; check units and reserve accounting without importing large-scale parameters.

POSTCONDITION

Return a design trace and missing measurement requirements. No physical phone, proven capacity or operating device is established.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within JP; status from the original product register is retained.

IMPLEMENTATION CHECK

A marine parameter without a validated scale map must be flagged rather than reused.

DISCOVERY NAMES

JP-SC-PHONE; JP Semiconductor Phone Battery and OS Candidate

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_planned_only_no_physical_article.

PLANNED_ONLY_NO_PHYSICAL_ARTICLE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1380

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1380>

SOURCE REFERENCES

Recovered nonwhite collection, page 1380

JP Marine Power - Syntax and typed expression

MJPE-COMplete-20260925-JP-MARINE-POWER-PURPLE | Source-backed documentary sequence — execution not rerun

JP Marine Power / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- MarineProfile: vessel context
- IntakeStorage: typed energy model
- PowerBus: conversion path
- Containment: declared boundary

PRECONDITION

A marine proposal names vessel context, intake, storage, power bus and containment assumptions.

SEMANTIC OBLIGATION

Model relationships within the marine profile, keeping classification, environment, loads and absent physical measurements unresolved.

POSTCONDITION

Return a marine design proposal, not vessel-operation or demonstrated propulsion evidence.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within JP; status from the original product register is retained.

IMPLEMENTATION CHECK

Missing vessel/load context must not be filled by a phone or generic solar profile.

DISCOVERY NAMES

JP-LS-BOAT; JP Large-Scale Boating Power Candidate

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_planned_only_unclassified.

PLANNED_ONLY_UNCLASSIFIED

SOURCE REFERENCES

- Recovered nonwhite collection, page 1381

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1381>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1381](#)

JP Peaceful Propulsion - Syntax and typed expression

MJPE-COMPLETE-20260925-JP-PEACEFUL-PROPULSION-PURPLE | Source-backed documentary sequence — execution not rerun

JP Peaceful Propulsion / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- ResearchPurpose: peaceful scope
- PropulsionState: reference-only
- EnergyBoundary: typed quantities
- PhysicalStatus: active safety hold

PRECONDITION

A peaceful propulsion research request declares purpose, measurement boundary and unresolved safety gates.

SEMANTIC OBLIGATION

Document bounded measurement/control requirements and independent safety evidence while retaining planned-only status.

POSTCONDITION

Return a research design record on hold; no launch, ignition, hardware operation or physical performance is established.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within JP; status from the original product register is retained.

IMPLEMENTATION CHECK

A simulation result must not be promoted to a hardware command.

DISCOVERY NAMES

JP-PEACEFUL-PROPULSION; JP Peaceful High-Energy Propulsion Research Candidate

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_planned_only_safety_hold.

PLANNED_ONLY_SAFETY_HOLD

SOURCE REFERENCES

- Recovered nonwhite collection, page 1382

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1382>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1382](#)

Shiva Dual Rails - Syntax and typed expression

MJPE-COMPLETE-20260925-SHIVA-RAILS-PURPLE | Source-backed documentary sequence — execution not rerun

Shiva Dual Rails / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- StabilityRail: liquidity scope
- InvestmentRail: risk scope
- AccountReference: Mermaid record
- ExternalState: disabled

PRECONDITION

An internal scenario separates stability and investment purposes with applicable account evidence.

SEMANTIC OBLIGATION

Keep liquidity-first constraints, risk models and rail accounting distinct; preserve exposure and reconciliation per source.

POSTCONDITION

Return an internal financial-rail model or HOLD; external operations remain disabled.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

An investment scenario must not silently consume a protected stability reserve.

DISCOVERY NAMES

SHIVA-RAILS; Shiva Dual Financial Rails

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_internal_model_external_disabled.

INTERNAL_MODEL_EXTERNAL_DISABLED

SOURCE REFERENCES

- Recovered nonwhite collection, page 1387

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1387>

SOURCE REFERENCES

Recovered nonwhite collection, page 1387

SHIVAS Internal Reflection - Syntax and typed expression

MJPE-COMplete-20260925-SHIVAS-INTERNAL-PURPLE | Source-backed documentary sequence — execution not rerun

SHIVAS Internal Reflection / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- ReflectionId: immutable identity
- CapitalReference: internal source
- Transferability: false
- MonetaryValue: none asserted

PRECONDITION

An internal reflection names its source capital model and nontransferable boundary.

SEMANTIC OBLIGATION

Record the reference and reconciliation history without minting an external asset, redemption promise or guaranteed value.

POSTCONDITION

Return a nontransferable internal reflection record, with no public offer or monetary-value assertion.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within SHIVA; status from the original product register is retained.

IMPLEMENTATION CHECK

External redemption or a guaranteed market price must be rejected as an unsupported interpretation.

DISCOVERY NAMES

SHIVAS-INTERNAL; SHIVAS Internal Settlement Reflection

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_nontransferable_no_monetary_value.

NONTRANSFERABLE_NO_MONETARY_VALUE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1388

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1388>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1388](#)

Shiva Exchange Reference - Syntax and typed expression

MJPE-COMPLETE-20260925-SHIVA-EXCHANGE-PURPLE | Source-backed documentary sequence — execution not rerun

Shiva Exchange Reference / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- SimulationOrder: bounded fixture
- PriceTimeRule: declared model
- CustodyReference: source or synthetic
- MarketState: simulation only

PRECONDITION

An exchange-rule simulation declares fixtures, price-time rules and custody/audit assumptions.

SEMANTIC OBLIGATION

Model the stated rule while preserving chronological order, custody references and unresolved authority obligations.

POSTCONDITION

Return simulation evidence, not a live market, executed trade or transferable asset.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within SHIVA; status from the original product register is retained.

IMPLEMENTATION CHECK

A matched simulation order must not be reported as a completed real transfer.

DISCOVERY NAMES

SHIVA-EXCHANGE; Shiva Exchange Rule Reference

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_internal_simulation_only.

INTERNAL_SIMULATION_ONLY

SOURCE REFERENCES

- Recovered nonwhite collection, page 1390

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1390>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1390](#)

Elsa Marketplace Reference - Syntax and typed expression

MJPE-COMplete-20260925-ELSA-MARKETPLACE-PURPLE | Source-backed documentary sequence — execution not rerun

Elsa Marketplace Reference / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- Listing: declared semantic purpose
- Workflow: bounded stages
- AccountingReference: scoped record
- ResourceEvidence: route and capacity

PRECONDITION

An internal listing supplies meaning, workflow scope and required accounting/resource references.

SEMANTIC OBLIGATION

Coordinate semantic, workflow and evidence relationships without giving the listing operational authority. Elsa remains the sole compiler identity.

POSTCONDITION

Return an internal marketplace reference with unresolved stages visible; no live market is inferred.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

An ambiguous listing or missing custody reference must remain held rather than actionable.

DISCOVERY NAMES

ELSA-MARKETPLACE; Elsa Governed Marketplace Reference
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_internal_reference_only.

INTERNAL_REFERENCE_ONLY

SOURCE REFERENCES

- Recovered nonwhite collection, page 1394

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1394>

SOURCE REFERENCES

Recovered nonwhite collection, page 1394

Bangel Spreadsheets - Syntax and typed expression

MJPE-COMplete-20260925-BANGEL-SPREADSHEETS-PURPLE | Source-backed documentary sequence — execution not rerun

Bangel Spreadsheets / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- Cell: typed measurement or UNKNOWN
- Revision: immutable workbook identity
- DependencyGraph: declared edges
- RecalculationReceipt: exact input/output revisions

PRECONDITION

A workbook edit supplies typed cells, an expected revision and dependency/simulation context.

SEMANTIC OBLIGATION

Preserve immutable revisions, deterministic recalculation, concurrency checks and audit evidence; keep Pearl simulation partitions distinct from measured cells.

POSTCONDITION

Return a new revision with recalculation evidence, or reject/hold a conflict. Results do not authorize external effects.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within Bangel; status from the original product register is retained.

IMPLEMENTATION CHECK

A stale revision or incompatible unit must not overwrite prior work or coerce missing values to zero.

DISCOVERY NAMES

Bangel-SPREADSHEETS; Bangel Spreadsheets

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference_mvp_prepasskey.

REFERENCE_MVP_PREPASSKEY

SOURCE REFERENCES

- Recovered nonwhite collection, page 1397

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1397>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1397](#)

JPOSMJ Portfolio - Syntax and typed expression

MJPE-COMplete-20260925-JPOSMJ-PORTFOLIO-PURPLE | Source-backed documentary sequence — execution not rerun

JPOSMJ Portfolio / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- ProductOrigin: JP source identity
- PhysicsReview: MK applicability
- Verification: JO evidence
- PermitClass: bounded MJ status

PRECONDITION

A product candidate declares origin and independent physics, verification and participant-review requirements.

SEMANTIC OBLIGATION

Collect separate reviews into a portfolio envelope, retaining product-specific evidence and unresolved admission gates.

POSTCONDITION

Return a product evidence envelope. Inclusion does not transfer another product's proof or permit.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within JP; status from the original product register is retained.

IMPLEMENTATION CHECK

An unrelated product receipt must not close the target's requirement without verified equivalence.

DISCOVERY NAMES

JPOSMJ-PORTFOLIO; JPOSMJ Product Portfolio Envelope

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_prepasskey_portfolio_envelope.

PREPASSKEY_PORTFOLIO_ENVELOPE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1398

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1398>

SOURCE REFERENCES

Recovered nonwhite collection, page 1398

MJ Standard Containment - Syntax and typed expression

MJPE-COMPLETE-20260925-STANDARD-CONTAINMENT-PURPLE | Source-backed documentary sequence — execution not rerun

MJ Standard Containment / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- Geometry: normalized rectangle/cone profile
- Scale: declared with physical values held
- ReferenceGas: named model
- Boundary: Sister, EVE and reservoir

PRECONDITION

A reference calculation declares normalized geometry, scale, gas profile and boundary conditions.

SEMANTIC OBLIGATION

Calculate source-backed geometry relationships while separating measured dimensions and gas behavior from normalized reference shapes.

POSTCONDITION

Return a geometry reference and required measurements; absent physical values remain held.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

Normalized dimensions must not be treated as fabricated hardware dimensions without scale evidence.

DISCOVERY NAMES

STANDARD-CONTAINMENT-GEOMETRY; MJ Standard Containment Geometry and Reference Gas Model
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference_mvp_physical_values_hold.

REFERENCE_MVP_PHYSICAL_VALUES_HOLD

SOURCE REFERENCES

- Recovered nonwhite collection, page 1399

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1399>

SOURCE REFERENCES

Recovered nonwhite collection, page 1399

MJ Reservoir Collection - Syntax and typed expression

MJPE-COMplete-20260925-RESERVOIR-COLLECTION-PURPLE | Source-backed documentary sequence — execution not rerun

MJ Reservoir Collection / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ReservoirState: bounded volume or energy
- Outlet: exterior boundary
- Reentry: declared geometry
- Balance: observed, simulated or unknown

PRECONDITION

A reservoir model identifies collection, outlet, buffer, re-entry and wave/friction assumptions.

SEMANTIC OBLIGATION

Track loop and return relationships using units, uncertainty and applicable containment, egress, safety, routing and accounting evidence.

POSTCONDITION

Return a reference balance or HOLD missing measurements; a logical loop is not a demonstrated physical circulation device.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

An omitted outlet or residual must remain unknown rather than silently creating a self-balancing system.

DISCOVERY NAMES

RESERVOIR-COLLECTION-MODULATION; MJ Reservoir Collection, Lake Buffer, and Spiral-Compatible Re-entry
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference_mvp_physical_values_hold.

REFERENCE_MVP_PHYSICAL_VALUES_HOLD

SOURCE REFERENCES

- Recovered nonwhite collection, page 1400

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1400>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1400](#)

MJos Solar Core - Syntax and typed expression

MJPE-COMPLETE-20260925-SOLAR-CORE-PURPLE | Source-backed documentary sequence — execution not rerun

MJos Solar Core / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- SolarIntake: energy and source
- Storage: bounded state
- LoadProfile: phone, marine or spacecraft
- Reserve: explicit protected minimum

PRECONDITION

A solar design selects its application profile and declares intake, storage, load and reserve assumptions.

SEMANTIC OBLIGATION

Apply shared energy-accounting relationships while retaining each application's independent geometry, environment and verification needs.

POSTCONDITION

Return a shared-core design trace and evidence gaps; one profile's calculation does not validate the others.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

A phone thermal limit must not be applied to a marine or spacecraft profile without evidence.

DISCOVERY NAMES

MJOS-SOLAR-CORE-001; MJOS Solar Shared-Core Architecture

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_design_trace_specification_frozen_physical_hold`.

`DESIGN_TRACE_SPECIFICATION_FROZEN_PHYSICAL_HOLD`

SOURCE REFERENCES

- Recovered nonwhite collection, page 1401

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1401>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1401](#)

MJos Solar Phone - Syntax and typed expression

MJPE-COMplete-20260925-SOLAR-PHONE-PURPLE | Source-backed documentary sequence — execution not rerun

MJos Solar Phone / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- PhoneLoad: workload context
- SolarAssist: observed or assumed
- BatteryThermal: source-bound temperature
- WakeReserve: bounded energy

PRECONDITION

A phone-power scenario declares solar input, battery/thermal observations, workload and wake reserves.

SEMANTIC OBLIGATION

Coordinate intake, storage and workload within the semiconductor profile using typed energy accounting and explicit uncertainty.

POSTCONDITION

Return a planned power trace, not a demonstrated battery-life claim or physical phone.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

Missing temperature or acquisition provenance must hold unsupported thermal/reserve conclusions.

DISCOVERY NAMES

MJOS-SOLAR-SEMI-PHONE-001; MJOS Solar Semiconductor Phone Battery and OS Profile

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_design_trace_specification_frozen_planned_only_no_physical_article.

DESIGN_TRACE_SPECIFICATION_FROZEN_PLANNED_ONLY_NO_PHYSICAL_ARTICLE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1402

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1402>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1402](#)

MJos Solar Marine - Syntax and typed expression

MJPE-COMPLETE-20260925-SOLAR-MARINE-PURPLE | Source-backed documentary sequence — execution not rerun

MJos Solar Marine / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- MarineLoad: propulsion and critical loads
- SolarStorage: intake and state
- ConversionRecovery: explicit path
- ReserveProtection: source-bound limits

PRECONDITION

A marine scenario declares intake, storage, propulsion loads, thermal requirements and critical reserves.

SEMANTIC OBLIGATION

Model conversion/recovery and state transitions with vessel-specific telemetry and reserve requirements.

POSTCONDITION

Return an unclassified design trace or HOLD; no operating vessel, certification or physical efficiency is established.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

Ordinary demand must not silently consume a protected critical reserve.

DISCOVERY NAMES

MJOS-SOLAR-MARINE-001; MJOS Solar-Assisted Marine Power and Propulsion Profile

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_design_trace_specification_frozen_unclassified_no_physical_article.

DESIGN_TRACE_SPECIFICATION_FROZEN_UNCLASSIFIED_NO_PHYSICAL_ARTICLE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1403

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1403>

SOURCE REFERENCES

Recovered nonwhite collection, page 1403

MJos Solar Spacecraft - Syntax and typed expression

MJPE-COMPLETE-20260925-SOLAR-SPACECRAFT-PURPLE | Source-backed documentary sequence — execution not rerun

MJos Solar Spacecraft / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- MissionProfile: peaceful research
- AvionicsReserve: bounded energy
- PropulsionState: coordination only
- FaultState: explicit emergency boundary

PRECONDITION

A peaceful spacecraft reference declares mission scope, electrical reserves, thermal/battery state and startup/shutdown evidence requirements.

SEMANTIC OBLIGATION

Document solar-assisted avionics, telemetry and fault-isolation relationships without converting them into launch or propulsion commands.

POSTCONDITION

Return a peaceful research trace with safety holds preserved.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

A successful reserve simulation must not be presented as launch approval.

DISCOVERY NAMES

MJOS-SOLAR-ROCKET-001; MJOS Peaceful Solar-Assisted Rocket/Spacecraft Power and OS Profile

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_design_trace_specification_frozen_peaceful_research_only_safety_hold.

DESIGN_TRACE_SPECIFICATION_FROZEN_PEACEFUL_RESEARCH_ONLY_SAFETY_HOLD

SOURCE REFERENCES

- Recovered nonwhite collection, page 1404

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1404>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1404](#)

DRO Collection - Syntax and typed expression

MJPE-COMplete-20260925-DRO-COLLECTION-PURPLE | Source-backed documentary sequence — execution not rerun

DRO Collection / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- DRORecord: element or variance identity
- Quantity: value, unit and uncertainty
- Scale: named profile
- Lineage: collection and conservation references

PRECONDITION

A collection record declares identity, quantity, scale, source and evidence state.

SEMANTIC OBLIGATION

Preserve typed measurement, lineage and conservation; distinguish collection observations from Pearl simulation and computational retention.

POSTCONDITION

Return a DRO reference record or HOLD missing evidence; no physical collection hardware is established.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

A Pearl simulation value must not be promoted to an observed DRO measurement.

DISCOVERY NAMES

DRO-COLLECTION-001; DRO Discrete Retention and Element-Collection Reference System

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference_candidate_simulation_and_measurement_only`.

`REFERENCE_CANDIDATE_SIMULATION_AND_MEASUREMENT_ONLY`

SOURCE REFERENCES

- Recovered nonwhite collection, page 1405

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1405>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1405](#)

DRO–Pearl Handoff - Syntax and typed expression

MJPE-COMPLETE-20260925-DRO-PEARL-HANDOFF-PURPLE | Source-backed documentary sequence — execution not rerun

DRO–Pearl Handoff / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- DROSource: typed record
- PearlNode: computational partition
- Capacity: typed allocation bound
- Receipt: source, target and retained lineage

PRECONDITION

DRO and Pearl identities declare compatible quantity/capacity types and a bounded computational handoff.

SEMANTIC OBLIGATION

Allocate within capacity, retain the original measurement or simulation class and bind both sides to a receipt.

POSTCONDITION

Return a computational handoff record; information retention does not become physical containment.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

Capacity excess or lost source identity must reject/hold rather than silently truncate the transfer.

DISCOVERY NAMES

DRO-PEARL-HANDOFF-001; DRO-to-Pearl Computational Node Handoff

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_simulation_and_information_retention_only.

SIMULATION_AND_INFORMATION_RETENTION_ONLY

SOURCE REFERENCES

- Recovered nonwhite collection, page 1406

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1406>

SOURCE REFERENCES

Recovered nonwhite collection, page 1406

DRO Start and Reserve - Syntax and typed expression

MJPE-COMPLETE-20260925-DRO-START-RESERVE-PURPLE | Source-backed documentary sequence — execution not rerun

DRO Start and Reserve / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- EnergySource: classified reference
- StartEnergy: amount or UNKNOWN
- RestartReserve: protected bound
- OperationState: non-operational hold

PRECONDITION

A start/restart reference scenario declares source energy, conversion assumptions and protected reserves.

SEMANTIC OBLIGATION

Represent source, start and restart accounting with explicit permit gates and unresolved physical measurements.

POSTCONDITION

Return a non-operational energy reference on active hold; no ignition hardware is authorized.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

Adequate simulated start energy without verified reserve and separate permission must retain the hold.

DISCOVERY NAMES

DRO-IGNITION-REFERENCE-001; DRO Start-Energy and Restart-Reserve Reference System

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_non_operational_reference_active_hold.

NON_OPERATIONAL_REFERENCE_ACTIVE_HOLD

SOURCE REFERENCES

- Recovered nonwhite collection, page 1407

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1407>

SOURCE REFERENCES

Recovered nonwhite collection, page 1407

Lecanto Image Truth - Syntax and typed expression

MJPE-COMplete-20260925-LECANTO-IMAGE-TRUTH-PURPLE | Source-backed documentary sequence — execution not rerun

Lecanto Image Truth / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ImageSource: digest and metadata
- SignalResidual: scoped comparison
- Transformation: disclosed derivative
- IntentHypothesis: bounded inference

PRECONDITION

Image analysis preserves original source identity and declares its comparison or transformation purpose.

SEMANTIC OBLIGATION

Analyze source-backed residuals, label derivatives and distinguish a bounded intent hypothesis from observed fact.

POSTCONDITION

Return provenance-linked analysis or HOLD missing origin; signal differences do not establish intent.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

An undisclosed edit or missing provenance must not be presented as an untouched original.

DISCOVERY NAMES

LECANTO-IMAGE-TRUTH-001; Lecanto Image Provenance, Physics, Variance, and Intent-Hypothesis System

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference_candidate.

REFERENCE_CANDIDATE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1408

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1408>

SOURCE REFERENCES

Recovered nonwhite collection, page 1408

JP Semiconductor DRO–Pearl - Syntax and typed expression

MJPE-COMPLETE-20260925-SEMICONDUCTOR-DRO-PEARL-PURPLE | Source-backed documentary sequence — execution not rerun

JP Semiconductor DRO–Pearl / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- SemiconductorProfile: scale and power
- DROEnergyLedger: typed quantities
- PearlNode: computational capacity
- WakeReserve: protected limit

PRECONDITION

A proposal binds energy accounting, computational capacity and wake/reserve assumptions to one semiconductor scale.

SEMANTIC OBLIGATION

Preserve separate measurement, simulation and power roles; check typed capacities and energy relationships without inventing a physical article.

POSTCONDITION

Return a planned integration trace with unresolved hardware evidence.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Product profile within MJ; status from the original product register is retained.

IMPLEMENTATION CHECK

Computational retention must not be treated as physical energy storage without a measured mapping.

DISCOVERY NAMES

JP-SC-DRO-PEARL-INTEGRATION-001; JP Semiconductor DRO and Pearl Computational Integration

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_planned_only_no_physical_article.

PLANNED_ONLY_NO_PHYSICAL_ARTICLE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1409

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1409>

SOURCE REFERENCES

Recovered nonwhite collection, page 1409

Shiva Internal Banking Reference - Syntax and typed expression

MJPE-COMplete-20260925-SHIVA-DAY1-PURPLE | Source-backed documentary sequence — execution not rerun

Shiva Internal Banking Reference / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- InternalAccount: reference-only
- TreasuryScenario: explicit scope
- SettlementReflection: internal model
- ExternalMarket: excluded

PRECONDITION

An internal Day-1 objective states account, treasury, settlement and audit scope.

SEMANTIC OBLIGATION

Document internal financial relationships under Mermaid, M3, JO, MK and MJ boundaries; exclude outside-platform cryptocurrency and public markets.

POSTCONDITION

Return an internal future-objective record, not an operational bank or public service.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Later Grey register names an internal-only objective in place of the Blue catalog position that described disabled external crypto.

IMPLEMENTATION CHECK

External token offers or unadmitted transfers must not expand the internal scope.

DISCOVERY NAMES

SHIVA-DAY1-INTERNAL-BANKING-MVP

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_future_internal_objective.

No outside-platform cryptocurrency, public market or operational banking claim.

SOURCE REFERENCES

- Recovered nonwhite collection, page 7105

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=7105>

SOURCE REFERENCES

Recovered nonwhite collection, page 7105

Shiva Crypto Legacy Candidate - Syntax and typed expression

MJPE-COMplete-20260925-SHIVA-CRYPTO-LEGACY-PURPLE | Archive reference — disabled

Shiva Crypto Legacy Candidate / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- HistoricalEntry: BP-PROD-017
- Status: DISABLED_ACTIVE_HOLD
- LaterScope: internal-only Grey objective
- Reconciliation: dated scope difference

PRECONDITION

A reader must reconcile the earlier disabled Blue entry with the later internal-only Grey register.

SEMANTIC OBLIGATION

Preserve both dated scopes without treating the later internal objective as authorization for the older external candidate.

POSTCONDITION

Return archive-only reconciliation; no token, market or live external product is promoted.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Later Grey register records an internal-only Day-1 objective; do not silently merge the two statuses.

IMPLEMENTATION CHECK

A later internal update must not be represented as removal of the earlier external hold.

DISCOVERY NAMES

SHIVA-CRYPTO

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: historical_disabled.

Disabled historical record; not a current launch, token offer or live financial service.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1389

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1389>

- Recovered nonwhite collection, page 7105

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=7105>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1389](#)

[Recovered nonwhite collection, page 7105](#)

Shiva Shells - Syntax and typed expression

MJPE-COMplete-20260925-SHIVA-SHELLS-PURPLE | Source-backed documentary sequence — execution not rerun

Shiva Shells / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- ShellId: governed account-envelope identity
- FinancialState: typed representations
- Provenance: source-bound evidence
- Authority: false; separate admission required

PRECONDITION

A Shiva Shell identifies its typed financial state, source lineage and applicable account-envelope contract.

SEMANTIC OBLIGATION

Validate schema, provenance and scope; carry related accounting and participant evidence without letting the object authorize itself.

POSTCONDITION

Return a governed account envelope or HOLD missing evidence. A shell is distinct from Shiva capital proposals and SHIVAS nontransferable reflections.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Distinct from Shiva capital proposals and SHIVAS internal reflections. The envelope cannot authorize itself.

IMPLEMENTATION CHECK

A well-formed shell without separate custody or admission evidence must not authorize a transfer or enlarge its scope.

DISCOVERY NAMES

SHIVA_SHELL; Shiva shells

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_historical_reference.

authority=false; separate custody, scope and admission requirements remain applicable.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1327

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1327>

- Recovered nonwhite collection, page 7098

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=7098>

- Recovered nonwhite collection, page 394

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=394>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Account family used with SHIVAS and the Teal/MJ development integration.
- Historical integration reported; account and authority contracts require their own source evidence.
- Historical evidence has not been rerun in this discovery pass.

SEPARATE HISTORICAL CONTRACT OUTLINE

- ShellIdentity — account and governing profile
- AccountState — exact holdings and sequence
- TransferContext — sender, recipient and allowed operation
- ShellReceipt — state change and provenance

IF

A Shell account participates in an admitted ledger instruction.

HOW

Resolve the account identities and exact state, apply the matching asset/profile rules and retain the sequence and reconciliation evidence.

THEN

Describe the accountable before/after state and any unmet authority condition.

This historical outline is separate from the current-source contract above. It does not establish native integration or newly executed results.

SOURCE REFERENCES

[Recovered nonwhite collection, page 1327](#)

[Recovered nonwhite collection, page 7098](#)

[Recovered nonwhite collection, page 394](#)

MJos Operating System - Syntax and typed expression

MJPE-COMplete-20260925-MJOS-OPERATING-SYSTEM-PURPLE | Source-backed documentary sequence — execution not rerun

MJos Operating System / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- OperatingProfile: explicit proposed substrate
- ResourceLease: bounded MJ allocation
- ExecutionPlan: separately admitted work
- InfrastructureReceipt: isolation and continuity evidence

PRECONDITION

An operating-system profile declares its resource, memory, storage, scheduling and continuity obligations under the applicable MJ scope.

SEMANTIC OBLIGATION

Represent the proposed substrate and lease boundaries, preserving exact resource ownership and source status. Distinguish hosted software components and simulations from a demonstrated bootable operating system.

POSTCONDITION

Return a source-backed operating-system profile or unresolved implementation requirement. The MJos name does not itself establish a completed kernel or hardware platform.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Distinct operating-system identity under MJ Physics Engineering. Existing hosted Bangel components and the MJos Predictive Model do not by themselves prove a completed bootable operating system.

IMPLEMENTATION CHECK

A successful hosted calculation must not be reported as a boot, isolation proof or operational OS result without corresponding executable evidence.

DISCOVERY NAMES

MJOS; MJos OS; MJOS-SUBSTRATE

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_specification_candidate.

Source-described operating substrate; no complete bootable kernel, hardware platform or independently verified resource-isolation result is inferred.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1305

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1305>

- Recovered nonwhite collection, page 1379

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1379>

- Recovered nonwhite collection, page 7095

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=7095>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1305](#)

[Recovered nonwhite collection, page 1379](#)

[Recovered nonwhite collection, page 7095](#)

Bangel Database 1.0 - Syntax and typed expression

MJPE-COMplete-20260925-BANGEL-DATABASE-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Database 1.0 / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- DatabaseRequest — query, schema version, declared purpose
- TypedTransaction — values, constraints, visibility and isolation
- AuthorityEvidence — actor, scope and expiry
- TransactionReceipt — admitted outcome, uncertainty and lineage

PRECONDITION

A query or transaction names its schema, purpose, expected effects and required permissions.

SEMANTIC OBLIGATION

Resolve the typed request, retain uncertainty and lineage, check the declared transaction boundary and compare the result with its governing profile.

POSTCONDITION

Document the admitted result and reconciliation record; keep unsupported schema or authority conditions explicit.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: JP; Joanna Processing; GIN. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Submit a transaction with an incompatible schema or absent write authority; preserve refusal and unchanged state, even if its payload hash is valid.

DISCOVERY NAMES

Bangel Database 1.0

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical E012 and AR001 builds are reported; an independent current release and full native parity remain unverified.

Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Moana Service Desk - Syntax and typed expression

MJPE-COMPLETE-20260925-MOANA-SERVICE-DESK-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Moana Service Desk / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- UserIntent — requested workflow and context
- DomainRecord — versioned project data
- PermissionScope — actor and allowed operation
- WorkflowReceipt — observed result and provenance

PRECONDITION

A user selects a documented workflow with the required record and role context.

SEMANTIC OBLIGATION

Match the request to the source-defined workflow, preserve record identity and state transitions, and distinguish prototype behavior from connected services.

POSTCONDITION

Return the documented workflow result with its evidence level and unresolved integration steps.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Moana; C# Engineering Studio. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Attempt a technician-only service transition from an unassigned account; retain the ticket history and reject the unauthorized state change.

DISCOVERY NAMES

Moana Service Desk
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

A local Linux demo with 21 integration tests was historically reported; Windows, macOS and hosted operation remain unverified. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Logical Layer 5 - Syntax and typed expression

MJPE-COMPLETE-20260925-MJ-L5-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Logical Layer 5 / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ModelProposal — candidate outcome and uncertainty
- IndependentEvidence — observations separate from the proposal
- GateDecision — PASS, HOLD or DENY with reasons
- SupervisionTrace — deadlines, retries and retained state

PRECONDITION

A neural or predictive proposal reaches the supervising decision layer.

SEMANTIC OBLIGATION

Apply the independent gate order, operating mode and bounded-loop policy while retaining the original proposal and observed evidence.

POSTCONDITION

Record the permitted disposition without allowing predicted confidence to override missing or rejecting evidence.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJ Neural Net; MJ Memory Recall; MJos Predictive Model. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Feed a high-confidence prediction while an independent guardian veto is active; the forecast must not override that veto or deadline.

DISCOVERY NAMES

MJ Logical Layer 5

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Protected L5 test and ablation completion is reported; a plain-L5 extra HOLD remained separately unresolved. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MjQ - Syntax and typed expression

MJPE-COMPLETE-20260925-MJQ-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MjQ / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ResearchHypothesis — stated idea and scope
- QualifiedAnalogy — source and biological or software context
- Observation — measured or synthetic evidence
- FalsificationCriterion — result that would challenge the hypothesis

PRECONDITION

A research claim links language states, memory or relational context.

SEMANTIC OBLIGATION

Preserve its definitions, distinguish software analogy from biological evidence and identify an explicit comparison or falsification test.

POSTCONDITION

Retain a qualified research result and unresolved questions rather than promoting analogy into implemented fact.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: JP; MJ Neural Net; MJ Neural Logic. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Compare two matching cues under different coordinate or relation contexts; preserve uncertainty and distinguish associative retrieval from a verified causal explanation.

DISCOVERY NAMES

MjQ

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Research note; biological analogies and provisional lowercase r0 are not established biological mechanisms. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJos Self-Healing Kernel - Syntax and typed expression

MJPE-COMPLETE-20260925-MJOS-SELF-HEALING-KERNEL-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Self-Healing Kernel / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- Checkpoint — rooted recoverable state
- RecoveryProposal — intended bounded correction
- IndependentValidation — evidence for accepting a correction
- RecoveryReceipt — applied or retained state and reason

PRECONDITION

A detected failure or discrepancy requests a recovery action.

SEMANTIC OBLIGATION

Identify the exact recoverable state, permitted correction and independent validation path; preserve prior evidence and rollback boundaries.

POSTCONDITION

Describe the verified recovery or unresolved hold without granting the recovery module new authority.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJ Memory Recall; MJos Operating System; Teal. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Interrupt a bounded worker after a checkpoint; record recovery provenance and ensure the proposed recovered state is validated before reuse.

DISCOVERY NAMES

MJos Self-Healing Kernel
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_report_not_fresh_verification.

Partial interfaces and development integration are reported; normal issuance and predictive key recovery were distinct historical paths. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Predictive Node Placement - Syntax and typed expression

MJPE-COMPLETE-20260925-PREDICTIVE-NODE-PLACEMENT-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Predictive Node Placement / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

PRECONDITION

A named mechanism is used in a project explanation or proposed computation.

SEMANTIC OBLIGATION

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

POSTCONDITION

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJos Predictive Model; Teal; MJ Neural Net. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Give the next command an early observation that conflicts with the previous prediction; preserve both and reconcile against the actual outcome.

DISCOVERY NAMES

Predictive Node Placement
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_report_not_fresh_verification.

Intended incremental loop and development integration; performance is workload-specific and requires verification. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Teal Ledger - Syntax and typed expression

MJPE-COMPLETE-20260925-TEAL-LEDGER-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Teal Ledger / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- LedgerInstruction — asset, account and intended operation
- ExactAmount — units, scale and conservation rule
- AdmissionEvidence — identity, scope and validated conditions
- LedgerReceipt — before/after state, evidence and reconciliation

PRECONDITION

A proposed ledger instruction identifies its asset, account, exact amount and admitted scope.

SEMANTIC OBLIGATION

Preserve the applicable profile, compare conservation and reconciliation rules, and separate internal reference behavior from external transfer or financial authority.

POSTCONDITION

Record the profile-qualified result; retain missing integration and external-operation requirements.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: SHIVAS; Shell Accounts; GIN; MJos Self-Healing Kernel. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Replay a signed allocation and attempt a decimal transfer beyond available atomic balance; reject duplicate or invalid state transitions without rounding value.

DISCOVERY NAMES

Teal Ledger

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Local development builds and benchmarks reported; distributed deployment and full release contracts remain open.

Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

SHIVAS Ledger Profile - Syntax and typed expression

MJPE-COMPLETE-20260925-SHIVAS-LEDGER-PROFILE-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

SHIVAS Ledger Profile / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- AssetProfile — identity, denomination and transfer rules
- ExactBalance — atomic units and evidence
- TransferProposal — source, destination and scope
- AssetReceipt — conserved state and lineage

PRECONDITION

A SHIVAS record is interpreted or used in a ledger example.

SEMANTIC OBLIGATION

Select the correct dated profile and preserve its amount, transferability, internal-reflection and authority rules.

POSTCONDITION

Document only that profile's behavior; do not silently convert an internal reflection into a transferable public asset.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: SHIVAS Internal Reflection; Shiva; Shiva Shells; Teal Ledger. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Transfer one atomic unit at the exact balance boundary and then one unit beyond it; document valid arithmetic separately from permission to transfer real value.

DISCOVERY NAMES

SHIVAS Ledger Profile
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

This later ledger profile must not overwrite the nontransferable SHIVAS Internal Reflection source profile. Development ledger identity; no independent production asset or value claim is established. Historical evidence has not been rerun in this

discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Digital Twin - Syntax and typed expression

MJPE-COMplete-20260925-DIGITAL-TWIN-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Digital Twin / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ObservedState — actual received data
- PredictedState — candidate continuation or placement
- Comparison — difference with confidence and uncertainty
- TwinReceipt — observation, prediction and evidence boundary

PRECONDITION

A digital model receives an observation and proposes a future or alternative state.

SEMANTIC OBLIGATION

Preserve observation time and provenance, distinguish received facts from forecast values and compare predictions with later evidence.

POSTCONDITION

Record the model's bounded result and variance without substituting predictions for unreceived or unauthenticated data.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJos Predictive Model; Teal Ledger. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Change a received command result after fixing its prediction; keep the original prediction and add a separately timestamped discrepancy receipt.

DISCOVERY NAMES

MJ Digital Twin

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

First received-byte observation was historically reported; prediction is not a verified substitute for actual authenticated input.

Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Quantum Water Protection - Syntax and typed expression

MJPE-COMPLETE-20260925-MJ-QUANTUM-WATER-PROTECTION-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Quantum Water Protection / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- WaterSystemBoundary — components and intended purpose
- Measurement — units, sensor or simulation origin
- ProtectionProposal — proposed bounded action
- ValidationRecord — software, bench or field evidence

PRECONDITION

A water-system design or protective action is evaluated.

SEMANTIC OBLIGATION

Use the declared physical model and available measurements, separate software simulation from hardware evidence and retain uncertainty and operating limits.

POSTCONDITION

Produce the supported design or test conclusion and identify the measurements needed before physical-performance claims.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Hagar; Bangel Language. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Supply a simulated sensor series as if it were field water evidence; require clear provenance and prevent a treatment-performance claim from that series.

DISCOVERY NAMES

MJ Quantum Water Protection
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_report_not_fresh_verification.

Historical source and package lineage; the name does not establish experimentally validated quantum protection. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Cloud - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-CLOUD-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Cloud / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ProjectManifest — source, documents and versions
- WorkspaceAction — edit, import, build or restore
- AccessContext — actor and declared scope
- WorkspaceReceipt — artifact, checkpoint and status

PRECONDITION

A project enters a local workspace or a proposed hosted environment.

SEMANTIC OBLIGATION

Preserve source imports and project boundaries, trace the selected build/backup path and distinguish local capabilities from connected hosting.

POSTCONDITION

Present the available workspace result and its actual persistence, authentication and deployment status.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Workspace; Shekina; Bangel Physics Lab; Bangel Statistics Lab. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Import two projects with the same file name but different roots; preserve source identities, access boundaries and recoverable versions.

DISCOVERY NAMES

Bangel Cloud

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Local checkpoints and cloud preparation are reported; earlier AWS deployment was explicitly pending. Historical evidence

has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Workspace - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-WORKSPACE-PURPLE | Recovered historical or requested identity — documentary reconstruction;
execution not rerun

Bangel Workspace / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ProjectManifest — files and version lineage
- ImportRecord — original and derived artifact
- ExperimentRecord — inputs, outputs and context
- RecoveryCheckpoint — verified save and restore record

PRECONDITION

A project document, program or experiment is added to the workspace.

SEMANTIC OBLIGATION

Retain originals and duplicate lineage, associate derived results with inputs and verify the applicable save or restoration path.

POSTCONDITION

Expose a traceable project view and explicit recovery boundary.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Cloud; Physics Lab; Statistics Lab. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Restore a checkpoint after modifying an experiment; identify the exact restored bytes and keep the newer experiment discoverable as a separate version.

DISCOVERY NAMES

Bangel Workspace
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical local checkpoint packages; complete current source and durable-save status require recovery. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Physics Lab - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-PHYSICS-LAB-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Physics Lab / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- Lesson — concept and versioned source
- ExperimentInput — value, unit and assumption
- ExampleResult — computed or illustrative output
- LearningEvidence — execution environment and limits

PRECONDITION

A learner changes a documented example or experiment.

SEMANTIC OBLIGATION

Explain the governing rule, preserve input units and assumptions, and label executed examples separately from candidate language exports.

POSTCONDITION

Show the result, comparison and evidence appropriate to the supported lesson.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Workspace; Bangel Language. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Enter physically incompatible units in a formula example; produce an explicit constraint result rather than a plausible-looking numerical answer.

DISCOVERY NAMES

Bangel Physics Lab
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical 100-method local lab; native execution coverage differed by language and checkpoint. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Statistics Lab - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-STATISTICS-LAB-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Statistics Lab / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- Lesson — concept and versioned source
- ExperimentInput — value, unit and assumption
- ExampleResult — computed or illustrative output
- LearningEvidence — execution environment and limits

PRECONDITION

A learner changes a documented example or experiment.

SEMANTIC OBLIGATION

Explain the governing rule, preserve input units and assumptions, and label executed examples separately from candidate language exports.

POSTCONDITION

Show the result, comparison and evidence appropriate to the supported lesson.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Workspace; Bangel Language. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Compare a missing observation with an actual zero and vary a resampling seed; preserve missingness and reproducible statistical assumptions.

DISCOVERY NAMES

Bangel Statistics Lab
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical local learning workbench; it was not yet a 100-method catalog. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Encrypted Message API - Syntax and typed expression

MJPE-COMPLETE-20260925-MJ-ENCRYPTED-MESSAGE-API-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Encrypted Message API / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ProtocolRequest — endpoint, version and payload
- AuthenticationEvidence — key-bound integrity result
- ProtocolDecision — accepted or rejected with reason
- ResponseReceipt — result and documented limitations

PRECONDITION

A request arrives under the documented protocol.

SEMANTIC OBLIGATION

Validate its shape and integrity using the stated contract and distinguish tamper detection from identity, freshness or authorization guarantees.

POSTCONDITION

Report the supported acceptance result without implying checks the protocol does not implement.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: C# Engineering Studio. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Alter an authenticated message and replay a previously accepted packet; report tamper and replay behavior separately under the declared protocol.

DISCOVERY NAMES

MJ Encrypted Message API
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_report_not_fresh_verification.

Historical cross-platform tests and public repository reported; identity, truth and freshness are not established by message acceptance. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Interoperability - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-INTEROP-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Interoperability / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- BindingContract — language and protocol version
- TypedRequest — representation and effects
- InteropResult — output or named failure
- ParityEvidence — platform and matching contract

PRECONDITION

A host language calls a documented Bangel interface.

SEMANTIC OBLIGATION

Match protocol, representation and ownership rules; keep adapter behavior separate from native-language implementation claims.

POSTCONDITION

Return a profile-qualified result and record which parity evidence actually covers the binding.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Language; JP; Joanna Processing. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Pass an unknown field, an unsupported numeric value and a version mismatch through each claimed binding; compare protocol outcomes without assuming parity.

DISCOVERY NAMES

Bangel Interoperability

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Some released integration families are reported; each binding needs its own supported-contract and parity record. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Teaching Pathway - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-TEACHING-PATHWAY-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Teaching Pathway / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
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TYPED BANGEL BINDING

- LearningObjective — supported concept
- WorkedExample — source and grammar profile
- Comparison — C# and Bangel behavior
- PracticeEvidence — expected result and explanation

PRECONDITION

A learner follows a Bangel or paired C#/Bangel lesson.

SEMANTIC OBLIGATION

Use examples grounded in the selected implemented grammar and explain matching and differing semantics.

POSTCONDITION

Provide a reproducible exercise and distinguish teaching shorthand from executable syntax.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Language; C# Engineering Studio. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Translate a lesson between C# and Bangel and verify equivalent inputs, units and visible outcomes; mark features whose toolchain support is only proposed.

DISCOVERY NAMES

Bangel Teaching Pathway
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Recovered document and repository pathway; teaching examples must match the implemented grammar. Historical

evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Java Work Order API - Syntax and typed expression

MJPE-COMPLETE-20260925-JAVA-WORK-ORDER-API-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Java Work Order API / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- Lesson — concept and versioned source
- ExperimentInput — value, unit and assumption
- ExampleResult — computed or illustrative output
- LearningEvidence — execution environment and limits

PRECONDITION

A learner changes a documented example or experiment.

SEMANTIC OBLIGATION

Explain the governing rule, preserve input units and assumptions, and label executed examples separately from candidate language exports.

POSTCONDITION

Show the result, comparison and evidence appropriate to the supported lesson.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Engineering Studio; Java Learning Pathway. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Try an invalid work-order status transition and malformed required field; preserve structured errors and the previous stored record.

DISCOVERY NAMES

Java Work Order API
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical clean build and nine tests reported; learner mastery and production suitability are separate. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Artifact Integrity Service - Syntax and typed expression

MJPE-COMPLETE-20260925-ARTIFACT-INTEGRITY-SERVICE-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Artifact Integrity Service / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ProposedCapability — purpose and scope
- ArtifactManifest — paths, sizes and hashes
- DifferenceReport — added, missing or changed entries
- ImplementationEvidence — source and test status

PRECONDITION

An artifact-integrity workflow is proposed for a software package.

SEMANTIC OBLIGATION

Define the deterministic inventory and comparison contract, identify unsafe paths and distinguish design requirements from built functionality.

POSTCONDITION

Produce a reviewable specification and explicit implementation status.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Java Work Order API; Bangel Interoperability. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Compare manifests after adding, removing and modifying files, including an unsafe path; distinguish each change and refuse traversal outside the allowed root.

DISCOVERY NAMES

Artifact Integrity Service
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Architecture and learning proposal; a completed implementation was not established in the reviewed turns. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Manifest - Syntax and typed expression

MJPE-COMPLETE-20260925-MANIFEST-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Manifest / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- CreatorProfile — declared public presentation
- BookingIntent — proposed service and availability
- PrototypeEvent — simulated interaction
- IntegrationStatus — connected or pending service

PRECONDITION

A creator or visitor explores the Manifest prototype.

SEMANTIC OBLIGATION

Follow the documented presentation and booking flow while retaining its separate project boundary and identifying simulations.

POSTCONDITION

Return the prototype outcome without implying live payments, notifications or availability.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Tide Casa. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Attempt to turn an incomplete creator profile into a confirmed booking; preserve the distinction between presentation, availability and accepted booking authority.

DISCOVERY NAMES

Manifest

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Private UI prototype with simulated bookings and alerts; earlier user direction explicitly kept it separate from approved BarTide/Tide Casa builds. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Tide Casa - Syntax and typed expression

MJPE-COMPLETE-20260925-TIDE-CASA-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Tide Casa / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- ClientBrief — business need and scope
- ProductConfiguration — selected workflow and presentation
- DeliveryRecord — build, preview and release state
- OperatingEvidence — observed capability and limits

PRECONDITION

A client defines a website or application need.

SEMANTIC OBLIGATION

Map it to the supported product lane and documented delivery workflow, preserving the distinction between approved builds and historical prototypes.

POSTCONDITION

Present a traceable preview or bounded delivery result with its current evidence.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: BarTide; Engineering Studio; MJ Physics Engineering. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Route the same account through two service verticals; preserve each business context, billing purpose and client authorization.

DISCOVERY NAMES

Tide Casa

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historically deployed C# product; public branding should remain distinct from internal engineering roles. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Variance Capture - Syntax and typed expression

MJPE-COMPLETE-20260925-VARIANCE-CAPTURE-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Variance Capture / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
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TYPED BANGEL BINDING

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

PRECONDITION

A named mechanism is used in a project explanation or proposed computation.

SEMANTIC OBLIGATION

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

POSTCONDITION

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: GIN; Predictive Node Placement; MJos Predictive Model. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Record opposite signed deviations from the same fixed prediction; retain sign, units, uncertainty and original observation timestamps.

DISCOVERY NAMES

Variance Capture
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Recovered named mechanism; numeric and governance semantics are profile-specific. Historical evidence has not been

rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Variance Pool - Syntax and typed expression

MJPE-COMplete-20260925-VARIANCE-POOL-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Variance Pool / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

PRECONDITION

A named mechanism is used in a project explanation or proposed computation.

SEMANTIC OBLIGATION

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

POSTCONDITION

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: GIN; Teal; MJ Permission. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Request allocation from evidence with incompatible units or missing provenance; keep the unresolved allocation visible and do not create usable authority.

DISCOVERY NAMES

Variance Pool

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Recovered concept; a current executable allocation contract must be identified before claiming runtime behavior. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Rain - Syntax and typed expression

MJPE-COMPLETE-20260925-RAIN-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Rain / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

PRECONDITION

A named mechanism is used in a project explanation or proposed computation.

SEMANTIC OBLIGATION

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

POSTCONDITION

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: GIN; Umbrella; Pearls. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Try to derive executable behavior from the recovered concept name alone; require a recovered formal definition and a versioned contract before assigning capability.

DISCOVERY NAMES

Rain

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: documented_mechanism_source_pending.

Reference recovered; exact semantics should be tied to the governing source profile. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Umbrella - Syntax and typed expression

MJPE-COMPLETE-20260925-UMBRELLA-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Umbrella / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

PRECONDITION

A named mechanism is used in a project explanation or proposed computation.

SEMANTIC OBLIGATION

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

POSTCONDITION

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: GIN; Rain; Smoke. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Attempt to collapse an unresolved uncertainty envelope into a scalar certainty; preserve the selected definition and its unresolved implementation boundary.

DISCOVERY NAMES

Umbrella

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: documented_mechanism_source_pending.

Reference recovered; current implementation is not established by name alone. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Smoke - Syntax and typed expression

MJPE-COMPLETE-20260925-SMOKE-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Smoke / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

PRECONDITION

A named mechanism is used in a project explanation or proposed computation.

SEMANTIC OBLIGATION

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

POSTCONDITION

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: GIN; Umbrella. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Present an ambiguous indicator as a verified observation; retain its evidence class and refuse an unsupported promotion to fact.

DISCOVERY NAMES

Smoke

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: documented_mechanism_source_pending.

Reference recovered; precise rules and runtime support require source reconciliation. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

BlueWater - Syntax and typed expression

MJPE-COMPLETE-20260925-BLUEWATER-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

BlueWater / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- MarketProfile — location and customer need
- ServiceBrief — scope and deliverables
- PilotEvidence — observed customer workflow
- DeliveryRecord — approved state and support boundary

PRECONDITION

A local business selects a documented BlueWater service.

SEMANTIC OBLIGATION

Keep the regional needs, scope and pilot evidence explicit and separate planning packages from deployed workflows.

POSTCONDITION

Produce the supported service outline and next measurable delivery step.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Lola; Tide Casa. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Duplicate a regional template for another business; preserve the client-specific content, permissions and distinction between preview and release.

DISCOVERY NAMES

BlueWater

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical private pilot and website records; the relationship to later Tide Casa branding requires explicit provenance rather than assuming an automatic rename. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Lola - Syntax and typed expression

MJPE-COMPLETE-20260925-LOLA-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Lola / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- CustomerIntent — stated need and context
- ServiceKnowledge — approved scope and wording
- Recommendation — bounded option and explanation
- HandoffRecord — unresolved question and human owner

PRECONDITION

A customer asks Lola for service or planning guidance.

SEMANTIC OBLIGATION

Use the approved service information, preserve intentional voice interaction and route unsupported decisions to a human.

POSTCONDITION

Give a grounded recommendation or clear handoff without inventing booking or payment completion.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: BlueWater. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Give the concierge a request beyond its configured service package; retain the question and route the unresolved commitment to a human decision.

DISCOVERY NAMES

Lola

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical guided prototype; voice, live service integrations and current hosting should be verified separately. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Leverage Analyst - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-LEVERAGE-ANALYST-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Leverage Analyst / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- PlaybookEntry — model geometry and assignments
- FilmObservation — frame, timestamp and confidence
- ContextRecord — external play-by-play or coaching input
- AnalysisReceipt — measured versus modeled conclusion

PRECONDITION

A football play or film window is selected for analysis.

SEMANTIC OBLIGATION

Separate modeled playbook structure from observed video and fallback context, then apply the documented review order and calibration requirements.

POSTCONDITION

Return only the supported geometry or physics assessment with unresolved observation steps visible.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Physics Football; Lecanto; GIN. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Compare a playbook route with an uncertain film track; preserve calibration, frame provenance and the distinction between modeled and observed movement.

DISCOVERY NAMES

Physics-Based Play Analysis
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_report_not_fresh_verification.

Historical owner-only alpha; playbook models and fallback play-by-play context are not independently verified film observations. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Leverage Physics Lab - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-LEVERAGE-PHYSICS-LAB-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Leverage Physics Lab / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- VideoReference — local or embedded source
- FieldCalibration — landmarks and coordinate transform
- TrackedPoint — time, position and confidence
- EducationalReceipt — calculation and limitations

PRECONDITION

A learner selects video and supplies a supported calibration or tracking observation.

SEMANTIC OBLIGATION

Compute the documented measurements from actual inputs and label manual timestamps, coordinates and inaccessible embedded frames.

POSTCONDITION

Explain the derived educational measurement without implying automated film evidence.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Leverage Analyst; Lecanto; GIN. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Change field calibration while holding pixel tracks constant; show its effect on distance and speed, preserving uncertainty and reproducible timing.

DISCOVERY NAMES

Physics-Based Play Analysis
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_report_not_fresh_verification.

Historical separate alpha; YouTube review used manual timestamps and coordinates, with no automatic access to embedded video frames. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Cybernetic Framework - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-CYBERNETIC-FRAMEWORK-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Cybernetic Framework / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- TargetState — desired bounded outcome
- Measurement — actual state and uncertainty
- AuthorizedCorrection — permitted response
- Reconciliation — observed consequence and retained difference

PRECONDITION

A system compares an intended outcome with an observed state.

SEMANTIC OBLIGATION

Represent targets, measurements, differences and permitted corrections through JP while keeping measurement separate from authority.

POSTCONDITION

Record the admitted response and its observed consequence for reconciliation.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: JP; GIN; Joanna Processing; MJ Permission. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Propose a correction that reduces measured error but exceeds allowed authority; reject the action while preserving the analytical result.

DISCOVERY NAMES

Bangel Cybernetic Framework
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_report_not_fresh_verification.

Recovered architecture; individual executable pathways need source-level reconciliation. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJos Software Supply Trust - Syntax and typed expression

MJPE-COMPLETE-20260925-MJOS-SOFTWARE-SUPPLY-TRUST-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Software Supply Trust / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ReleaseArtifact — source and build lineage
- CryptographicInventory — observed dependency evidence
- ReleaseAuthorization — permitted signing or distribution scope
- RecoveryEvidence — rehearsed response and retained history

PRECONDITION

A software release or signing-key recovery scenario is reviewed.

SEMANTIC OBLIGATION

Connect the observed build, dependency, authorization and recovery evidence without claiming absent scans or production integration.

POSTCONDITION

Produce a bounded assurance record and the outstanding pilot/implementation requirements.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJos Quantum; Bangel Language; JP; Joanna Processing. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Revoke a signing key after a release and replay its old attestation; distinguish historical signature validity from current admission and recovery policy.

DISCOVERY NAMES

MJos Software Supply Trust
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Product proposal and pilot definition; current implemented product source must be recovered before making operational claims. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJos Marine Trust - Syntax and typed expression

MJPE-COMPLETE-20260925-MJOS-MARINE-TRUST-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Marine Trust / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- SupplierArtifact — firmware or software provenance
- VesselIntegration — system and version
- ServiceEvent — observed maintenance action
- TrustDecision — evidence-based permitted operation

PRECONDITION

A marine software artifact moves between supplier, installer and operator.

SEMANTIC OBLIGATION

Track its source, version, authorization and service evidence across the declared vessel boundary.

POSTCONDITION

Explain the qualified trust decision and the physical or deployment evidence still required.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJos Quantum; Trust Gateway; MJ Marine. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Present supplier firmware evidence for the wrong vessel configuration; preserve the mismatch and hold admission despite a valid supplier signature.

DISCOVERY NAMES

MJos Marine Trust

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Product concept with historical logo proposals; production deployment and physical assurance are not established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

QSHM - Syntax and typed expression

MJPE-COMPLETE-20260925-QSHM-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

QSHM / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- HardwareConcept — intended role and interface
- EvidenceRequirement — bench, device or integration proof
- InterfaceContract — bounded inputs and outputs
- ResearchStatus — proposed, modeled or measured

PRECONDITION

A hardware concept is included in a system design.

SEMANTIC OBLIGATION

Specify its intended interfaces and evidence requirements without substituting a software mock-up for physical validation.

POSTCONDITION

Retain a reviewable hardware proposal and clearly identify the missing device evidence.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJos Quantum; Trust Gateway. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Compare a proposed hardware function with the validated software interface; mark missing device measurements and avoid reporting prototype or security-performance results.

DISCOVERY NAMES

QSHM

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Longer-term hardware proposal; no validated custom device or hardware security claim is established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Trust Gateway - Syntax and typed expression

MJPE-COMPLETE-20260925-TRUST-GATEWAY-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Trust Gateway / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- HardwareConcept — intended role and interface
- EvidenceRequirement — bench, device or integration proof
- InterfaceContract — bounded inputs and outputs
- ResearchStatus — proposed, modeled or measured

PRECONDITION

A hardware concept is included in a system design.

SEMANTIC OBLIGATION

Specify its intended interfaces and evidence requirements without substituting a software mock-up for physical validation.

POSTCONDITION

Retain a reviewable hardware proposal and clearly identify the missing device evidence.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJos Marine Trust; QSHM. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Disconnect fleet connectivity during a proposed update; demonstrate the specified hold/recovery contract before inferring a safe physical gateway behavior.

DISCOVERY NAMES

Trust Gateway

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Historical future hardware concept; no completed hardware deployment is established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Marine - Syntax and typed expression

MJPE-COMPLETE-20260925-MJ-MARINE-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Marine / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- VesselProfile — operating boundary and duty cycle
- EngineeringAlternative — component or configuration option
- ModelEvidence — assumptions, inputs and validation
- DecisionReport — comparison and remaining uncertainty

PRECONDITION

A vessel or propulsion decision has a defined objective and available data.

SEMANTIC OBLIGATION

Compare a bounded set of alternatives using the applicable model and preserve sensitivity to uncertain inputs.

POSTCONDITION

Provide an evidence-qualified engineering comparison and explicit data gaps.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJ Physics Engineering; Marine Design-Decision Twin. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Compare two repower candidates with unequal source quality; expose assumptions, sensitivity and missing vessel measurements before ranking them.

DISCOVERY NAMES

MJ Marine

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical private website and reference-model package; recommendations remain dependent on actual vessel data and validation. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Marine Design-Decision Twin - Syntax and typed expression

MJPE-COMPLETE-20260925-MARINE-DESIGN-DECISION-TWIN-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Marine Design-Decision Twin / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- DecisionBoundary — vessel, question and alternatives
- OperatingProfile — load and duty cycle
- TwinResult — propulsion, thermal or energy estimate
- ValidationPlan — measurements needed to test the result

PRECONDITION

A marine design decision is selected before hardware commitment.

SEMANTIC OBLIGATION

Build the declared baseline, compare the specified alternatives and trace assumptions, uncertainty and validation limits.

POSTCONDITION

Return a bounded model-based recommendation rather than an unmeasured physical-performance guarantee.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJ Marine; MJ Physics Digital Twins. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Change a propulsion constraint after fixing a comparison set; retain the earlier assumptions and produce a new bounded decision receipt.

DISCOVERY NAMES

Marine Design-Decision Twin
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Reference model and consulting offer; physical performance requires independent measurements and project-specific

validation. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Physics Digital Twins - Syntax and typed expression

MJPE-COMPLETE-20260925-MJ-PHYSICS-DIGITAL-TWINS-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Physics Digital Twins / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- PhysicalSystem — declared boundary
- ModelState — equations and assumptions
- Observation — measured input and provenance
- DecisionEvidence — comparison and supported conclusion

PRECONDITION

A physical system requires a design or control comparison.

SEMANTIC OBLIGATION

Connect the model, measurement and GIN variance while distinguishing known physics, modeled propositions and untested research.

POSTCONDITION

Present the supported comparison and validation needed for the next engineering decision.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJ Physics Engineering; GIN; Bangel Effect; MJ Marine. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Compare the pre-observation circuit model with measured inputs under changed units; preserve the model, conversion and residual evidence separately.

DISCOVERY NAMES

MJ Physics Digital Twins
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Historical consulting site and proposal family; known physics, modeled propositions and untested research remain distinct. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Effect - Syntax and typed expression

MJPE-COMplete-20260925-BANGEL-EFFECT-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Effect / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ResearchDefinition — named effect and scope
- PhysicalModel — established laws and assumptions
- PredictedDifference — testable model outcome
- ExperimentalEvidence — observation or unresolved measurement

PRECONDITION

A Bangel Effect claim is used in a visual or physical-model explanation.

SEMANTIC OBLIGATION

State the proposed effect, distinguish it from established thermodynamic mechanisms and define a measurement that could confirm or challenge it.

POSTCONDITION

Retain the research claim at the evidence level actually supported.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJ Physics Digital Twins; GIN. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Ask a visualization or simulated residual to establish a new physical effect; require independent experimental evidence and preserve the research-only status.

DISCOVERY NAMES

Bangel Effect

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Research identity; a name and visual explanation do not establish a newly observed physical law. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Media Compressor - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-MEDIA-COMPRESSOR-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Media Compressor / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- MediaSource — original bytes and provenance
- CodecProfile — implementation and supported subset
- CandidateTrial — proposed reversible path and resource evidence
- DecodeEvidence — independent restoration, quality and performance

PRECONDITION

A media transformation or compression candidate is proposed.

SEMANTIC OBLIGATION

Identify the actual codec implementation, preserve original bytes and compare restoration, quality and performance evidence.

POSTCONDITION

Record only the demonstrated result; partial AV1 work and third-party compression remain explicitly identified.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: JP; Joanna Processing; GIN. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Round-trip a bounded media sample under the declared codec and resource limit; separately report distortion, exactness claims, resource receipts and rollback conditions.

DISCOVERY NAMES

Bangel Media Compressor
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_report_not_fresh_verification.

Partial internal JP/AV1 sequence; native AV1 completion, independent decoding and compression superiority were explicitly not established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel C++ Service Adapter - Syntax and typed expression

MJPE-COMPLETE-20260925-CPP-SERVICE-ADAPTER-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel C++ Service Adapter / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- AdapterRequest — language and protocol version
- OwnershipContract — lifetimes and resource handling
- ProtocolResult — value or named failure
- InteropEvidence — example, test and platform

PRECONDITION

A host application sends a request through the adapter.

SEMANTIC OBLIGATION

Respect the selected service contract, ownership rules and response semantics rather than assuming complete native-language parity.

POSTCONDITION

Return the documented result with platform and contract coverage attached.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Interoperability; JP; Joanna Processing. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Send a malformed protocol response and unsupported version through the C++ adapter; retain structured failure without silently accepting incompatible data.

DISCOVERY NAMES

Bangel C++ Service Adapter
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_report_not_fresh_verification.

Historical released integration; current compatibility needs its own package and contract evidence. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

JP C++ Decimal Library - Syntax and typed expression

MJPE-COMPLETE-20260925-CPP-DECIMAL-LIBRARY-PURPLE | Recovered historical or requested identity — documentary reconstruction;
execution not rerun

JP C++ Decimal Library / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- DecimalValue — exact representation and scale
- NumericOperation — supported operation and rounding rule
- MemoryContract — owner and lifetime
- NumericEvidence — expected result and test profile

PRECONDITION

A supported decimal operation is requested through the native or R interface.

SEMANTIC OBLIGATION

Preserve representation, rounding and ownership rules and compare behavior with the matching numeric contract.

POSTCONDITION

Return the precise supported result or named failure without expanding the arithmetic guarantees.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Interoperability; R jpdecimal. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Exercise an exact decimal boundary and an overflow across the C and C++ interfaces; compare values and explicit failure contracts without binary floating-point substitution.

DISCOVERY NAMES

JP C++ Decimal Library

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical integration source; numeric behavior and memory ownership must stay tied to its specific contract. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Rust Service Adapter - Syntax and typed expression

MJPE-COMPLETE-20260925-RUST-SERVICE-ADAPTER-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Rust Service Adapter / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- AdapterRequest — language and protocol version
- OwnershipContract — lifetimes and resource handling
- ProtocolResult — value or named failure
- InteropEvidence — example, test and platform

PRECONDITION

A host application sends a request through the adapter.

SEMANTIC OBLIGATION

Respect the selected service contract, ownership rules and response semantics rather than assuming complete native-language parity.

POSTCONDITION

Return the documented result with platform and contract coverage attached.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Interoperability; JP; Joanna Processing. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Cancel a service request and then deliver a late response; preserve request identity, protocol validity and cancellation semantics.

DISCOVERY NAMES

Bangel Rust Service Adapter
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_report_not_fresh_verification.

Historical integration source; separate from a native Rust implementation of the entire language. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

R jpsservice - Syntax and typed expression

MJPE-COMPLETE-20260925-R-JPSERVICE-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

R jpsservice / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
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TYPED BANGEL BINDING

- AdapterRequest — language and protocol version
- OwnershipContract — lifetimes and resource handling
- ProtocolResult — value or named failure
- InteropEvidence — example, test and platform

PRECONDITION

A host application sends a request through the adapter.

SEMANTIC OBLIGATION

Respect the selected service contract, ownership rules and response semantics rather than assuming complete native-language parity.

POSTCONDITION

Return the documented result with platform and contract coverage attached.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Interoperability; JP; Joanna Processing. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Send a vector containing missing and zero values through the service binding; preserve each distinction or report an unsupported conversion.

DISCOVERY NAMES

R jpsservice

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical released integration; not interchangeable with the separately named encrypted-message API. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

R jpdecimal - Syntax and typed expression

MJPE-COMPLETE-20260925-R-JPDECIMAL-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

R jpdecimal / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- DecimalValue — exact representation and scale
- NumericOperation — supported operation and rounding rule
- MemoryContract — owner and lifetime
- NumericEvidence — expected result and test profile

PRECONDITION

A supported decimal operation is requested through the native or R interface.

SEMANTIC OBLIGATION

Preserve representation, rounding and ownership rules and compare behavior with the matching numeric contract.

POSTCONDITION

Return the precise supported result or named failure without expanding the arithmetic guarantees.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: JP C++ Decimal Library; Bangel Interoperability. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Round-trip a long decimal through the native and R boundaries; preserve exact representation and report unsupported range without silent rounding.

DISCOVERY NAMES

R jpdecimal

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical released integration; precise numeric semantics depend on the native-library contract. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Studios - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-STUDIOS-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Studios / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- BeatDocument — grid, tempo, lanes and events
- AudioProfile — instrument and processing settings
- ProjectState — user controls and saved version
- PlaybackEvidence — timing and export observations

PRECONDITION

A musical sequence is created or edited.

SEMANTIC OBLIGATION

Preserve event timing and user controls, identify the actual synthesis/export path and distinguish browser support from future native plug-in work.

POSTCONDITION

Present the playable or exported result at the demonstrated capability level.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Drums; Bangel Infinity; Bangel Media Compressor; Elsa Compiler; JP. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Reload a project with synchronized drum, bass and vocal lanes; compare tempo, event timing and declared processing without assuming native plug-in equivalence.

DISCOVERY NAMES

Bangel Studios

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical browser studio versions were reported; native plug-in packaging, commerce and production hosting are separate

delivery lanes. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Drums - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-DRUMS-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Drums / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- BeatDocument — grid, tempo, lanes and events
- AudioProfile — instrument and processing settings
- ProjectState — user controls and saved version
- PlaybackEvidence — timing and export observations

PRECONDITION

A musical sequence is created or edited.

SEMANTIC OBLIGATION

Preserve event timing and user controls, identify the actual synthesis/export path and distinguish browser support from future native plug-in work.

POSTCONDITION

Present the playable or exported result at the demonstrated capability level.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Studios; JP; Joanna Processing. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Replay a fixed tempo and step pattern, then alter one step; compare deterministic event scheduling and state while keeping browser and native audio lanes distinct.

DISCOVERY NAMES

Physics Drum Sequencer; Drum Sequencer

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical browser versions and downloadable build kits; native audio-host validation remains a separate requirement.

Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

RECOVERED HISTORICAL CONTEXT

- Historical scope: Music/sequencing product family with JP-domain and deterministic runtime lineage.

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Infinity - Syntax and typed expression

MJPE-COMplete-20260925-BANGEL-INFINITY-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Infinity / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

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TYPED BANGEL BINDING

- AudioInput — source and provenance
- ProcessingProfile — named controls and limits
- RenderedOutput — format and timing
- ComparisonEvidence — observed change and fidelity

PRECONDITION

The named audio-processing profile is applied to an eligible studio input.

SEMANTIC OBLIGATION

Trace the actual processing path and controls and compare output with the original rather than inferring superiority from the profile name.

POSTCONDITION

Document the supported studio result and any independent-validation gap.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Studios. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Apply the named processing profile to the same saved input twice; record the specified parameters and avoid inferring an undocumented algorithm from the product name.

DISCOVERY NAMES

Bangel Infinity

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Profile named in the studio release record; a separately installed product or independently validated processing advantage is not established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Compiler Lab - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-COMPILER-LAB-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Compiler Lab / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- SourceProfile — admitted syntax and version
- TypedRepresentation — JP-IR identity and constraints
- DevelopmentStage — implemented, partial or held
- ConformanceEvidence — exact fixture and expected result

PRECONDITION

A compiler-lab source or codec stage is evaluated.

SEMANTIC OBLIGATION

Compile only the supported profile through Elsa, preserve JP identity and distinguish completed development slices from blocked dependencies.

POSTCONDITION

Produce the profile-qualified artifact and current implementation status.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Elsa Compiler; JP; Joanna Processing; Bangel Media Compressor. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Compile an unsupported backend or codec request through Elsa; preserve a precise unsupported result instead of claiming all staged backends are implemented.

DISCOVERY NAMES

Bangel Compiler Lab
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical private development build; unfinished codec, self-hosting and external verification work must stay visible. Historical

evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Debt Analytics - Syntax and typed expression

MJPE-COMplete-20260925-BANGEL-DEBT-ANALYTICS-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Debt Analytics / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ConstructDefinition — concept and version
- ComponentMeasure — data, units and direction
- ScoringPolicy — normalization, weights and aggregation
- ValidationEvidence — calibration and uncertainty

PRECONDITION

An analytical construct is estimated from declared inputs.

SEMANTIC OBLIGATION

Use one versioned construct definition and a traceable scoring policy, keeping calibration evidence separate from model design.

POSTCONDITION

Return a qualified estimate and the evidence needed before decision or performance claims.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Construct Framework; MJos Predictive Model. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Vary one debt-model input with fixed calibration rules; show how scores change and keep exploratory prioritization separate from a validated financial conclusion.

DISCOVERY NAMES

Bangel Debt Analytics
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical architecture and specifications; this distinct analytics lineage must not be presented as the current executable language. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Construct Framework - Syntax and typed expression

MJPE-COMPLETE-20260925-CONSTRUCT-FRAMEWORK-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Construct Framework / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ConstructDefinition — concept and version
- ComponentMeasure — data, units and direction
- ScoringPolicy — normalization, weights and aggregation
- ValidationEvidence — calibration and uncertainty

PRECONDITION

An analytical construct is estimated from declared inputs.

SEMANTIC OBLIGATION

Use one versioned construct definition and a traceable scoring policy, keeping calibration evidence separate from model design.

POSTCONDITION

Return a qualified estimate and the evidence needed before decision or performance claims.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Bangel Debt Analytics; MJos Predictive Model. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Reverse an input orientation and remove a required weight; preserve the normalization rule and expose the missing aggregation prerequisite.

DISCOVERY NAMES

Construct Framework
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Proposed architecture; a shared interface does not by itself prove calibration or validated predictions. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

BlueWater Studio - Syntax and typed expression

MJPE-COMPLETE-20260925-BLUEWATER-STUDIO-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

BlueWater Studio / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ClientBrief — business need and scope
- ProductConfiguration — selected workflow and presentation
- DeliveryRecord — build, preview and release state
- OperatingEvidence — observed capability and limits

PRECONDITION

A client defines a website or application need.

SEMANTIC OBLIGATION

Map it to the supported product lane and documented delivery workflow, preserving the distinction between approved builds and historical prototypes.

POSTCONDITION

Present a traceable preview or bounded delivery result with its current evidence.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: BlueWater; Lola; Engineering Studio. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Promote a client preview through a proposed release workflow; require the correct client identity and approved content before recording a published result.

DISCOVERY NAMES

BlueWater Studio

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Planning and prototype history; do not conflate with the current C#/Bangel Engineering Studio or approved Tide Casa deployment. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Document Library - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-DOCUMENT-LIBRARY-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Document Library / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- DocumentIdentity — project, color and source version
- PageReference — original page and derived edition
- SearchEntry — indexed text and provenance
- CoverageRecord — included, excluded or unavailable source

PRECONDITION

A document or historical collection is added to the library.

SEMANTIC OBLIGATION

Preserve its source identity and coverage, apply current display terminology and distinguish indexed text from recovered original bytes.

POSTCONDITION

Provide searchable, traceable records with missing sources and historical boundaries visible.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Teal Library; MJ Physics Engineering. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Search the same term by color, project and page; preserve source lineage and distinguish historical archive records from rewritten documentation.

DISCOVERY NAMES

Bangel Document Library
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_report_not_fresh_verification.

Historical private archive reported 340 documents and 28,902 searchable pages; full bytes and access are separate from this chat-index recovery. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Visual Effects - Syntax and typed expression

MJPE-COMPLETE-20260925-BANGEL-VISUAL-EFFECTS-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Visual Effects / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- ProjectIdentity — user-confirmed name
- SourceReference — pending original specification
- ProposedScope — unconfirmed product boundary
- RecoveryGap — evidence still required

PRECONDITION

The Bangel Visual Effects identity is prepared for the catalog.

SEMANTIC OBLIGATION

Recover its original scope and compare it with Lecanto and Bangel Effect without assuming they are the same product.

POSTCONDITION

Show the requested identity with a source-recovery status until its independent capabilities are grounded.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Lecanto; Bangel Effect; Bangel Language. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Compare a transformation against its source image and requested effect; document the exact transformation and keep scientific-effect claims outside unverified VFX scope.

DISCOVERY NAMES

Bangel visual effects

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: source_recovery_pending.

Historical project name confirmed by the user; exact source scope remains pending. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Silent Guardian - Syntax and typed expression

MJPE-COMPLETE-20260925-SILENT-GUARDIAN-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Silent Guardian / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- TelemetryRecord — authenticated or simulated origin, measurement and provenance
- RefinementState — deterministic estimate and covariance
- BoundedCorrection — proposed change and declared authority
- ObserverReceipt — baseline, evidence and preserved outcome

PRECONDITION

A transaction supplies an eligible observation under a declared Silent Guardian profile.

SEMANTIC OBLIGATION

Bind telemetry origin and provenance, update the deterministic estimate within its bounds, and retain the observed outcome and any proposed correction separately.

POSTCONDITION

Record the refinement and evidence receipt; leave unsupported integration and physical claims explicit.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Elsa Compiler; JP Representation; Joanna Processing; GIN Measurement; MJos Quantum Security; Perth. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Mix authenticated telemetry with simulated samples and exceed a correction envelope; preserve provenance, enforce bounds and report incomplete instrumentation.

DISCOVERY NAMES

Silent Guardian
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.
Recovered status: historical_reference_baseline_partial_integration.
Historical baseline package and tests were reported; their archives and tests were not freshly recovered or rerun in this pass.

Universal Elsa/JP/Joanna instrumentation and full active-runtime unification remained incomplete in the later review. Kalman refinement was deterministic estimation; fractal stability was a hypothesis and superdense coding was an ideal simulation, without physical-entanglement or performance-advantage evidence.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Aviator Cloud - Syntax and typed expression

MJPE-COMplete-20260925-AVIATOR-CLOUD-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Aviator Cloud / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- WorkspaceIdentity — Aviator product lane
- ServiceBoundary — local or hosted responsibility
- ContinuityReference — related Shekina role
- DeploymentEvidence — actual connected environment

PRECONDITION

The Aviator Cloud project lane is described or linked.

SEMANTIC OBLIGATION

Reconcile Aviator workspace, Bangel Cloud and Shekina roles while preserving their separate implementation and hosting evidence.

POSTCONDITION

Present the requested cloud-facing identity and the exact source/deployment gaps.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Aviator Workspace; Bangel Cloud; Shekina Continuity. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Describe a cloud task without a recovered deployment contract; retain the proposed workspace relationship and mark hosting, execution and continuity support as unresolved.

DISCOVERY NAMES

Aviator Cloud

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: source_recovery_pending.

Aviator and cloud roles are historically documented; the exact combined product source and deployment remain pending. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJos Neurological Model - Syntax and typed expression

MJPE-COMPLETE-20260925-MJOS-NEUROLOGICAL-MODEL-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Neurological Model / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- Observation — retained input and context
- MemoryCandidate — recalled relation with uncertainty
- PredictiveProposal — candidate outcome
- SupervisionDecision — independent gate and trace

PRECONDITION

A neural or recalled pattern contributes to a proposed decision.

SEMANTIC OBLIGATION

Retain observations, compare context and alternatives, preserve lowercase research states separately from runtime states and apply independent supervision.

POSTCONDITION

Record a qualified software result without treating biological analogy as biological validation.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJ Neural Net; MJ Memory Recall; MJ Logical Layer 5; Neural Logic Mapping; MJos Predictive Model. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Retrieve a similar memory in a different context; preserve relation and uncertainty, then require independent supervision before any proposed decision is admitted.

DISCOVERY NAMES

MJos Neurological Model
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: source_recovery_pending.

Related Neural Net, Memory Recall and L5 histories are recovered; the exact older umbrella specification remains pending. This is software research, not clinical or biological validation. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Mermaid Quantum Blockchain - Syntax and typed expression

MJPE-COMPLETE-20260925-MERMAID-QUANTUM-BLOCKCHAIN-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Mermaid Quantum Blockchain / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- LedgerInstruction — asset, account and intended operation
- ExactAmount — units, scale and conservation rule
- AdmissionEvidence — identity, scope and validated conditions
- LedgerReceipt — before/after state, evidence and reconciliation

PRECONDITION

A proposed ledger instruction identifies its asset, account, exact amount and admitted scope.

SEMANTIC OBLIGATION

Preserve the applicable profile, compare conservation and reconciliation rules, and separate internal reference behavior from external transfer or financial authority.

POSTCONDITION

Record the profile-qualified result; retain missing integration and external-operation requirements.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Mermaid Reconciliation; Teal Ledger; Shiva; Shiva Shells; GIN. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Map a Mermaid obligation to a ledger record; require an explicit semantic adapter and do not infer quantum security or a unified deployed chain.

DISCOVERY NAMES

Mermaid quantum blockchain
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: related_sources_integration_pending.

Component histories are recovered separately; a completed integrated quantum blockchain, quantum-security advantage or production network has not been established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Perth - Syntax and typed expression

MJPE-COMPLETE-20260925-PERTH-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Perth / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- TargetState — desired bounded outcome
- Measurement — actual state and uncertainty
- AuthorizedCorrection — permitted response
- Reconciliation — observed consequence and retained difference

PRECONDITION

A system compares an intended outcome with an observed state.

SEMANTIC OBLIGATION

Represent targets, measurements, differences and permitted corrections through JP while keeping measurement separate from authority.

POSTCONDITION

Record the admitted response and its observed consequence for reconciliation.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: MJos Operating System; Bangel Language; Elsa Compiler; JP Representation; Joanna Processing; Silent Guardian. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Import a historical module into the consolidation map; preserve its historical status and prevent documentation inclusion from marking it active or integrated.

DISCOVERY NAMES

Perth

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: documented_successor_framework_proposal.

Recovered historical specification or architecture; no fresh product execution is claimed.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJos Quantum: Living Water - Syntax and typed expression

MJPE-COMPLETE-20260925-LIVING-WATER-PURPLE | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Quantum: Living Water / Purple

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

TYPED BANGEL BINDING

- FacilityContext — existing process, scale and purpose
- OperatingEvidence — units, calibration, uncertainty and provenance
- ScenarioBudget — assumptions and projections separated from verified savings
- WaterSystemReceipt — accepted or held outcome, authority and lineage

PRECONDITION

An existing water facility or community scenario supplies its scale, measurements, engineering assumptions and operating limits.

SEMANTIC OBLIGATION

Model water and energy flows, expose cost assumptions, capture variance and QSHM evidence, and evaluate bounded recovery proposals under operator authority.

POSTCONDITION

Produce a traceable design or retrofit scenario, state what is verified, and hold physical deployment claims until their own evidence exists.

COMPILATION RULE

Elsa is the compiler. Use a declared Bangel grammar profile, independently admit the applicable JP representation and execute through Joanna only where that path is implemented. These fields are documentary contract notation, not parser-verified source. A shared .bangel extension does not prove grammar equivalence.

PROFILE RELATIONSHIP

Related identities: Hagar; MJ Quantum Water Protection; Perth. Preserve each named contract and source status.

IMPLEMENTATION CHECK

Compare a projected retrofit saving with verified facility measurements; preserve the stated zero verified savings and require independent water-quality and hardware evidence before physical deployment claims.

DISCOVERY NAMES

MJos Living Water; Living Water
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_website_and_reference_design_not_physical_validation`.

Historical website and reference-design evidence; no physical water-quality, hardware-performance or cyber-survival validation. The 57% savings target was explicitly \$0 verified savings. A later user correction focuses the platform on retrofitting existing facilities.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.