

Rainbow / 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 - Cross-system expression

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

Elsa Compiler / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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.

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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

JP Representation - Cross-system expression

MJPE-COMPLETE-20260925-JP-REPRESENTATION-RAINBOW | Source-backed documentary sequence — execution not rerun

JP Representation / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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.

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Joanna Processing / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

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

HOW

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

THEN

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.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-JO-PROOF-RAINBOW | Source-backed documentary sequence — execution not rerun

JO Proof and Verification / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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.

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJ Governing Root / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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.

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Bangel Robotics / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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.

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-TEAL-ROBOTICS-RAINBOW | Source-backed documentary sequence — execution not rerun

Teal Robotics / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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.

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Bangel Native SDK / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Bangel API / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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.

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJPS Thermodynamics / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJmri MRI Imaging / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM 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.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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

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

MJMRI Optical Research - Cross-system expression

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

MJMRI Optical Research / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Specialized MJMRI profile; camera evidence is not MRI.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Cubix / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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-0.1-MJMRI-MOBILE-OPTICAL-RESEARCH-PROFILE.md#L22>

SOURCE REFERENCES

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

MJ Memory Kernel Adapters - Cross-system expression

MJPE-COMplete-20260925-MJ-MEMORY-KERNEL-RAINBOW | Source-backed documentary sequence — execution not rerun

MJ Memory Kernel Adapters / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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.

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJ Football Playbook / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJ EGO REV / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJos Quantum Security / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Mika / MK Physics / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-ANGELS-SAFETY-RAINBOW | Source-backed documentary sequence — execution not rerun

Angels Safety / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Bellatrix Defense / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-SISTER-RAINBOW | Source-backed documentary sequence — execution not rerun

Sister Prediction and Containment / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

EVE Variance and Egress / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Mary / M3 Routing / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Mermaid Reconciliation / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Shiva Capital Models / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Shekina Continuity / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Belle Engineering / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Aviator Workspace / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

CHI Temporal Variance / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

WATER Uncertainty / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Named family identity; separate from color-paper identity.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-JP-SEMICONDUCTOR-PHONE-RAINBOW | Source-backed documentary sequence — execution not rerun

JP Semiconductor Phone / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-JP-MARINE-POWER-RAINBOW | Source-backed documentary sequence — execution not rerun

JP Marine Power / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-JP-PEACEFUL-PROPULSION-RAINBOW | Source-backed documentary sequence — execution not rerun

JP Peaceful Propulsion / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Shiva Dual Rails / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-SHIVAS-INTERNAL-RAINBOW | Source-backed documentary sequence — execution not rerun

SHIVAS Internal Reflection / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-SHIVA-EXCHANGE-RAINBOW | Source-backed documentary sequence — execution not rerun

Shiva Exchange Reference / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-ELSA-MARKETPLACE-RAINBOW | Source-backed documentary sequence — execution not rerun

Elsa Marketplace Reference / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Bangel Spreadsheets / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

JPOSMJ Portfolio / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJ Standard Containment / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJ Reservoir Collection / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJos Solar Core / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-SOLAR-PHONE-RAINBOW | Source-backed documentary sequence — execution not rerun

MJos Solar Phone / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-SOLAR-MARINE-RAINBOW | Source-backed documentary sequence — execution not rerun

MJos Solar Marine / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJos Solar Spacecraft / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

Return a peaceful research trace with safety holds preserved.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-DRO-COLLECTION-RAINBOW | Source-backed documentary sequence — execution not rerun

DRO Collection / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

DRO–Pearl Handoff / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

DRO Start and Reserve / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Lecanto Image Truth / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-SEMICONDUCTOR-DRO-PEARL-RAINBOW | Source-backed documentary sequence — execution not rerun

JP Semiconductor DRO–Pearl / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

Return a planned integration trace with unresolved hardware evidence.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-SHIVA-DAY1-RAINBOW | Source-backed documentary sequence — execution not rerun

Shiva Internal Banking Reference / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-SHIVA-CRYPTO-LEGACY-RAINBOW | Archive reference — disabled

Shiva Crypto Legacy Candidate / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Shiva Shells / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

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CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJos Operating System / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM 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.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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.

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Bangel Database 1.0 / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Moana Service Desk / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJ Logical Layer 5 / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

A neural or predictive proposal reaches the supervising decision layer.

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MjQ / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJos Self-Healing Kernel / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

A detected failure or discrepancy requests a recovery action.

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Predictive Node Placement / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Teal Ledger / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- 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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

SHIVAS Ledger Profile / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJ Digital Twin / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

MJ Quantum Water Protection / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Hagar; Bangel Language. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

A water-system design or protective action is evaluated.

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Bangel Cloud / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Related identities: Bangel Workspace; Shekina; Bangel Physics Lab; Bangel Statistics Lab. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- ProjectManifest — source, documents and versions
- WorkspaceAction — edit, import, build or restore
- AccessContext — actor and declared scope
- WorkspaceReceipt — artifact, checkpoint and status

ADAPTER PROCEDURE

IF

A project enters a local workspace or a proposed hosted environment.

HOW

Preserve source imports and project boundaries, trace the selected build/backup path and distinguish local capabilities from connected hosting.

THEN

Present the available workspace result and its actual persistence, authentication and deployment status.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-WORKSPACE-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Workspace / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Bangel Cloud; Physics Lab; Statistics Lab. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- ProjectManifest — files and version lineage
- ImportRecord — original and derived artifact
- ExperimentRecord — inputs, outputs and context
- RecoveryCheckpoint — verified save and restore record

ADAPTER PROCEDURE

IF

A project document, program or experiment is added to the workspace.

HOW

Retain originals and duplicate lineage, associate derived results with inputs and verify the applicable save or restoration path.

THEN

Expose a traceable project view and explicit recovery boundary.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-BANGEL-PHYSICS-LAB-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Physics Lab / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Bangel Workspace; Bangel Language. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- Lesson — concept and versioned source
- ExperimentInput — value, unit and assumption
- ExampleResult — computed or illustrative output
- LearningEvidence — execution environment and limits

ADAPTER PROCEDURE

IF

A learner changes a documented example or experiment.

HOW

Explain the governing rule, preserve input units and assumptions, and label executed examples separately from candidate language exports.

THEN

Show the result, comparison and evidence appropriate to the supported lesson.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-STATISTICS-LAB-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Statistics Lab / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Related identities: Bangel Workspace; Bangel Language. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- Lesson — concept and versioned source
- ExperimentInput — value, unit and assumption
- ExampleResult — computed or illustrative output
- LearningEvidence — execution environment and limits

ADAPTER PROCEDURE

IF

A learner changes a documented example or experiment.

HOW

Explain the governing rule, preserve input units and assumptions, and label executed examples separately from candidate language exports.

THEN

Show the result, comparison and evidence appropriate to the supported lesson.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-MJ-ENCRYPTED-MESSAGE-API-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Encrypted Message API / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- ProtocolRequest — endpoint, version and payload
- AuthenticationEvidence — key-bound integrity result
- ProtocolDecision — accepted or rejected with reason
- ResponseReceipt — result and documented limitations

ADAPTER PROCEDURE

IF

A request arrives under the documented protocol.

HOW

Validate its shape and integrity using the stated contract and distinguish tamper detection from identity, freshness or authorization guarantees.

THEN

Report the supported acceptance result without implying checks the protocol does not implement.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Bangel Interoperability / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- BindingContract — language and protocol version
- TypedRequest — representation and effects
- InteropResult — output or named failure
- ParityEvidence — platform and matching contract

ADAPTER PROCEDURE

IF

A host language calls a documented Bangel interface.

HOW

Match protocol, representation and ownership rules; keep adapter behavior separate from native-language implementation claims.

THEN

Return a profile-qualified result and record which parity evidence actually covers the binding.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-TEACHING-PATHWAY-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Teaching Pathway / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- LearningObjective — supported concept
- WorkedExample — source and grammar profile
- Comparison — C# and Bangel behavior
- PracticeEvidence — expected result and explanation

ADAPTER PROCEDURE

IF

A learner follows a Bangel or paired C#/Bangel lesson.

HOW

Use examples grounded in the selected implemented grammar and explain matching and differing semantics.

THEN

Provide a reproducible exercise and distinguish teaching shorthand from executable syntax.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-JAVA-WORK-ORDER-API-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Java Work Order API / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Engineering Studio; Java Learning Pathway. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- Lesson — concept and versioned source
- ExperimentInput — value, unit and assumption
- ExampleResult — computed or illustrative output
- LearningEvidence — execution environment and limits

ADAPTER PROCEDURE

IF

A learner changes a documented example or experiment.

HOW

Explain the governing rule, preserve input units and assumptions, and label executed examples separately from candidate language exports.

THEN

Show the result, comparison and evidence appropriate to the supported lesson.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-ARTIFACT-INTEGRITY-SERVICE-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Artifact Integrity Service / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Java Work Order API; Bangel Interoperability. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- ProposedCapability — purpose and scope
- ArtifactManifest — paths, sizes and hashes
- DifferenceReport — added, missing or changed entries
- ImplementationEvidence — source and test status

ADAPTER PROCEDURE

IF

An artifact-integrity workflow is proposed for a software package.

HOW

Define the deterministic inventory and comparison contract, identify unsafe paths and distinguish design requirements from built functionality.

THEN

Produce a reviewable specification and explicit implementation status.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Manifest / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Tide Casa. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- CreatorProfile — declared public presentation
- BookingIntent — proposed service and availability
- PrototypeEvent — simulated interaction
- IntegrationStatus — connected or pending service

ADAPTER PROCEDURE

IF

A creator or visitor explores the Manifest prototype.

HOW

Follow the documented presentation and booking flow while retaining its separate project boundary and identifying simulations.

THEN

Return the prototype outcome without implying live payments, notifications or availability.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-TIDE-CASA-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Tide Casa / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: BarTide; Engineering Studio; MJ Physics Engineering. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- ClientBrief — business need and scope
- ProductConfiguration — selected workflow and presentation
- DeliveryRecord — build, preview and release state
- OperatingEvidence — observed capability and limits

ADAPTER PROCEDURE

IF

A client defines a website or application need.

HOW

Map it to the supported product lane and documented delivery workflow, preserving the distinction between approved builds and historical prototypes.

THEN

Present a traceable preview or bounded delivery result with its current evidence.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-VARIANCE-CAPTURE-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Variance Capture / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: GIN; Predictive Node Placement; MJos Predictive Model. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-VARIANCE-POOL-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Variance Pool / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: GIN; Teal; MJ Permission. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Rain / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Related identities: GIN; Umbrella; Pearls. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Umbrella / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: GIN; Rain; Smoke. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Smoke / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Related identities: GIN; Umbrella. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

BlueWater / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Lola; Tide Casa. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- MarketProfile — location and customer need
- ServiceBrief — scope and deliverables
- PilotEvidence — observed customer workflow
- DeliveryRecord — approved state and support boundary

ADAPTER PROCEDURE

IF

A local business selects a documented BlueWater service.

HOW

Keep the regional needs, scope and pilot evidence explicit and separate planning packages from deployed workflows.

THEN

Produce the supported service outline and next measurable delivery step.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Lola / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Related identities: BlueWater. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- CustomerIntent — stated need and context
- ServiceKnowledge — approved scope and wording
- Recommendation — bounded option and explanation
- HandoffRecord — unresolved question and human owner

ADAPTER PROCEDURE

IF

A customer asks Lola for service or planning guidance.

HOW

Use the approved service information, preserve intentional voice interaction and route unsupported decisions to a human.

THEN

Give a grounded recommendation or clear handoff without inventing booking or payment completion.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-LEVERAGE-ANALYST-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Leverage Analyst / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Physics Football; Lecanto; GIN. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- PlaybookEntry — model geometry and assignments
- FilmObservation — frame, timestamp and confidence
- ContextRecord — external play-by-play or coaching input
- AnalysisReceipt — measured versus modeled conclusion

ADAPTER PROCEDURE

IF

A football play or film window is selected for analysis.

HOW

Separate modeled playbook structure from observed video and fallback context, then apply the documented review order and calibration requirements.

THEN

Return only the supported geometry or physics assessment with unresolved observation steps visible.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-LEVERAGE-PHYSICS-LAB-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Leverage Physics Lab / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Bangel Leverage Analyst; Lecanto; GIN. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- VideoReference — local or embedded source
- FieldCalibration — landmarks and coordinate transform
- TrackedPoint — time, position and confidence
- EducationalReceipt — calculation and limitations

ADAPTER PROCEDURE

IF

A learner selects video and supplies a supported calibration or tracking observation.

HOW

Compute the documented measurements from actual inputs and label manual timestamps, coordinates and inaccessible embedded frames.

THEN

Explain the derived educational measurement without implying automated film evidence.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-CYBERNETIC-FRAMEWORK-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Cybernetic Framework / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- TargetState — desired bounded outcome
- Measurement — actual state and uncertainty
- AuthorizedCorrection — permitted response
- Reconciliation — observed consequence and retained difference

ADAPTER PROCEDURE

IF

A system compares an intended outcome with an observed state.

HOW

Represent targets, measurements, differences and permitted corrections through JP while keeping measurement separate from authority.

THEN

Record the admitted response and its observed consequence for reconciliation.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-MJOS-SOFTWARE-SUPPLY-TRUST-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Software Supply Trust / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: MJos Quantum; Bangel Language; JP; Joanna Processing. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- ReleaseArtifact — source and build lineage
- CryptographicInventory — observed dependency evidence
- ReleaseAuthorization — permitted signing or distribution scope
- RecoveryEvidence — rehearsed response and retained history

ADAPTER PROCEDURE

IF

A software release or signing-key recovery scenario is reviewed.

HOW

Connect the observed build, dependency, authorization and recovery evidence without claiming absent scans or production integration.

THEN

Produce a bounded assurance record and the outstanding pilot/implementation requirements.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-MJOS-MARINE-TRUST-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Marine Trust / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: MJos Quantum; Trust Gateway; MJ Marine. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- SupplierArtifact — firmware or software provenance
- VesselIntegration — system and version
- ServiceEvent — observed maintenance action
- TrustDecision — evidence-based permitted operation

ADAPTER PROCEDURE

IF

A marine software artifact moves between supplier, installer and operator.

HOW

Track its source, version, authorization and service evidence across the declared vessel boundary.

THEN

Explain the qualified trust decision and the physical or deployment evidence still required.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

QSHM / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Related identities: MJos Quantum; Trust Gateway. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- HardwareConcept — intended role and interface
- EvidenceRequirement — bench, device or integration proof
- InterfaceContract — bounded inputs and outputs
- ResearchStatus — proposed, modeled or measured

ADAPTER PROCEDURE

IF

A hardware concept is included in a system design.

HOW

Specify its intended interfaces and evidence requirements without substituting a software mock-up for physical validation.

THEN

Retain a reviewable hardware proposal and clearly identify the missing device evidence.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-TRUST-GATEWAY-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Trust Gateway / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: MJos Marine Trust; QSHM. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- HardwareConcept — intended role and interface
- EvidenceRequirement — bench, device or integration proof
- InterfaceContract — bounded inputs and outputs
- ResearchStatus — proposed, modeled or measured

ADAPTER PROCEDURE

IF

A hardware concept is included in a system design.

HOW

Specify its intended interfaces and evidence requirements without substituting a software mock-up for physical validation.

THEN

Retain a reviewable hardware proposal and clearly identify the missing device evidence.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-MJ-MARINE-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Marine / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: MJ Physics Engineering; Marine Design-Decision Twin. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- VesselProfile — operating boundary and duty cycle
- EngineeringAlternative — component or configuration option
- ModelEvidence — assumptions, inputs and validation
- DecisionReport — comparison and remaining uncertainty

ADAPTER PROCEDURE

IF

A vessel or propulsion decision has a defined objective and available data.

HOW

Compare a bounded set of alternatives using the applicable model and preserve sensitivity to uncertain inputs.

THEN

Provide an evidence-qualified engineering comparison and explicit data gaps.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-MARINE-DESIGN-DECISION-TWIN-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Marine Design-Decision Twin / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: MJ Marine; MJ Physics Digital Twins. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- DecisionBoundary — vessel, question and alternatives
- OperatingProfile — load and duty cycle
- TwinResult — propulsion, thermal or energy estimate
- ValidationPlan — measurements needed to test the result

ADAPTER PROCEDURE

IF

A marine design decision is selected before hardware commitment.

HOW

Build the declared baseline, compare the specified alternatives and trace assumptions, uncertainty and validation limits.

THEN

Return a bounded model-based recommendation rather than an unmeasured physical-performance guarantee.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-MJ-PHYSICS-DIGITAL-TWINS-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Physics Digital Twins / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: MJ Physics Engineering; GIN; Bangel Effect; MJ Marine. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- PhysicalSystem — declared boundary
- ModelState — equations and assumptions
- Observation — measured input and provenance
- DecisionEvidence — comparison and supported conclusion

ADAPTER PROCEDURE

IF

A physical system requires a design or control comparison.

HOW

Connect the model, measurement and GIN variance while distinguishing known physics, modeled propositions and untested research.

THEN

Present the supported comparison and validation needed for the next engineering decision.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-EFFECT-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Effect / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: MJ Physics Digital Twins; GIN. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- ResearchDefinition — named effect and scope
- PhysicalModel — established laws and assumptions
- PredictedDifference — testable model outcome
- ExperimentalEvidence — observation or unresolved measurement

ADAPTER PROCEDURE

IF

A Bangel Effect claim is used in a visual or physical-model explanation.

HOW

State the proposed effect, distinguish it from established thermodynamic mechanisms and define a measurement that could confirm or challenge it.

THEN

Retain the research claim at the evidence level actually supported.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-MEDIA-COMPRESSOR-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Media Compressor / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- MediaSource — original bytes and provenance
- CodecProfile — implementation and supported subset
- CandidateTrial — proposed reversible path and resource evidence
- DecodeEvidence — independent restoration, quality and performance

ADAPTER PROCEDURE

IF

A media transformation or compression candidate is proposed.

HOW

Identify the actual codec implementation, preserve original bytes and compare restoration, quality and performance evidence.

THEN

Record only the demonstrated result; partial AV1 work and third-party compression remain explicitly identified.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-CPP-SERVICE-ADAPTER-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel C++ Service Adapter / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- AdapterRequest — language and protocol version
- OwnershipContract — lifetimes and resource handling
- ProtocolResult — value or named failure
- InteropEvidence — example, test and platform

ADAPTER PROCEDURE

IF

A host application sends a request through the adapter.

HOW

Respect the selected service contract, ownership rules and response semantics rather than assuming complete native-language parity.

THEN

Return the documented result with platform and contract coverage attached.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-CPP-DECIMAL-LIBRARY-RAINBOW | Recovered historical or requested identity — documentary reconstruction;
execution not rerun

JP C++ Decimal Library / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Bangel Interoperability; R jpdecimal. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence
where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- DecimalValue — exact representation and scale
- NumericOperation — supported operation and rounding rule
- MemoryContract — owner and lifetime
- NumericEvidence — expected result and test profile

ADAPTER PROCEDURE

IF

A supported decimal operation is requested through the native or R interface.

HOW

Preserve representation, rounding and ownership rules and compare behavior with the matching numeric contract.

THEN

Return the precise supported result or named failure without expanding the arithmetic guarantees.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-RUST-SERVICE-ADAPTER-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Rust Service Adapter / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- AdapterRequest — language and protocol version
- OwnershipContract — lifetimes and resource handling
- ProtocolResult — value or named failure
- InteropEvidence — example, test and platform

ADAPTER PROCEDURE

IF

A host application sends a request through the adapter.

HOW

Respect the selected service contract, ownership rules and response semantics rather than assuming complete native-language parity.

THEN

Return the documented result with platform and contract coverage attached.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-R-JPSERVICE-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

R jpsservice / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- AdapterRequest — language and protocol version
- OwnershipContract — lifetimes and resource handling
- ProtocolResult — value or named failure
- InteropEvidence — example, test and platform

ADAPTER PROCEDURE

IF

A host application sends a request through the adapter.

HOW

Respect the selected service contract, ownership rules and response semantics rather than assuming complete native-language parity.

THEN

Return the documented result with platform and contract coverage attached.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-R-JPDECIMAL-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

R jpdecimal / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: JP C++ Decimal Library; Bangel Interoperability. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- DecimalValue — exact representation and scale
- NumericOperation — supported operation and rounding rule
- MemoryContract — owner and lifetime
- NumericEvidence — expected result and test profile

ADAPTER PROCEDURE

IF

A supported decimal operation is requested through the native or R interface.

HOW

Preserve representation, rounding and ownership rules and compare behavior with the matching numeric contract.

THEN

Return the precise supported result or named failure without expanding the arithmetic guarantees.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-STUDIOS-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Studios / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Related identities: Bangel Drums; Bangel Infinity; Bangel Media Compressor; Elsa Compiler; JP. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- BeatDocument — grid, tempo, lanes and events
- AudioProfile — instrument and processing settings
- ProjectState — user controls and saved version
- PlaybackEvidence — timing and export observations

ADAPTER PROCEDURE

IF

A musical sequence is created or edited.

HOW

Preserve event timing and user controls, identify the actual synthesis/export path and distinguish browser support from future native plug-in work.

THEN

Present the playable or exported result at the demonstrated capability level.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Bangel Drums / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

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

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- BeatDocument — grid, tempo, lanes and events
- AudioProfile — instrument and processing settings
- ProjectState — user controls and saved version
- PlaybackEvidence — timing and export observations

ADAPTER PROCEDURE

IF

A musical sequence is created or edited.

HOW

Preserve event timing and user controls, identify the actual synthesis/export path and distinguish browser support from future native plug-in work.

THEN

Present the playable or exported result at the demonstrated capability level.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-INFINITY-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Infinity / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Related identities: Bangel Studios. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- AudioInput — source and provenance
- ProcessingProfile — named controls and limits
- RenderedOutput — format and timing
- ComparisonEvidence — observed change and fidelity

ADAPTER PROCEDURE

IF

The named audio-processing profile is applied to an eligible studio input.

HOW

Trace the actual processing path and controls and compare output with the original rather than inferring superiority from the profile name.

THEN

Document the supported studio result and any independent-validation gap.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-COMPILER-LAB-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Compiler Lab / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Related identities: Elsa Compiler; JP; Joanna Processing; Bangel Media Compressor. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- SourceProfile — admitted syntax and version
- TypedRepresentation — JP-IR identity and constraints
- DevelopmentStage — implemented, partial or held
- ConformanceEvidence — exact fixture and expected result

ADAPTER PROCEDURE

IF

A compiler-lab source or codec stage is evaluated.

HOW

Compile only the supported profile through Elsa, preserve JP identity and distinguish completed development slices from blocked dependencies.

THEN

Produce the profile-qualified artifact and current implementation status.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-DEBT-ANALYTICS-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Debt Analytics / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Construct Framework; MJos Predictive Model. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- ConstructDefinition — concept and version
- ComponentMeasure — data, units and direction
- ScoringPolicy — normalization, weights and aggregation
- ValidationEvidence — calibration and uncertainty

ADAPTER PROCEDURE

IF

An analytical construct is estimated from declared inputs.

HOW

Use one versioned construct definition and a traceable scoring policy, keeping calibration evidence separate from model design.

THEN

Return a qualified estimate and the evidence needed before decision or performance claims.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-CONSTRUCT-FRAMEWORK-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Construct Framework / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Bangel Debt Analytics; MJos Predictive Model. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- ConstructDefinition — concept and version
- ComponentMeasure — data, units and direction
- ScoringPolicy — normalization, weights and aggregation
- ValidationEvidence — calibration and uncertainty

ADAPTER PROCEDURE

IF

An analytical construct is estimated from declared inputs.

HOW

Use one versioned construct definition and a traceable scoring policy, keeping calibration evidence separate from model design.

THEN

Return a qualified estimate and the evidence needed before decision or performance claims.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BLUEWATER-STUDIO-RAINBOW | Recovered historical or requested identity — documentary reconstruction;
execution not rerun

BlueWater Studio / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: BlueWater; Lola; Engineering Studio. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence
where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- ClientBrief — business need and scope
- ProductConfiguration — selected workflow and presentation
- DeliveryRecord — build, preview and release state
- OperatingEvidence — observed capability and limits

ADAPTER PROCEDURE

IF

A client defines a website or application need.

HOW

Map it to the supported product lane and documented delivery workflow, preserving the distinction between approved builds and historical prototypes.

THEN

Present a traceable preview or bounded delivery result with its current evidence.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-DOCUMENT-LIBRARY-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Document Library / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Teal Library; MJ Physics Engineering. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- DocumentIdentity — project, color and source version
- PageReference — original page and derived edition
- SearchEntry — indexed text and provenance
- CoverageRecord — included, excluded or unavailable source

ADAPTER PROCEDURE

IF

A document or historical collection is added to the library.

HOW

Preserve its source identity and coverage, apply current display terminology and distinguish indexed text from recovered original bytes.

THEN

Provide searchable, traceable records with missing sources and historical boundaries visible.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-BANGEL-VISUAL-EFFECTS-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Visual Effects / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Lecanto; Bangel Effect; Bangel Language. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- ProjectIdentity — user-confirmed name
- SourceReference — pending original specification
- ProposedScope — unconfirmed product boundary
- RecoveryGap — evidence still required

ADAPTER PROCEDURE

IF

The Bangel Visual Effects identity is prepared for the catalog.

HOW

Recover its original scope and compare it with Lecanto and Bangel Effect without assuming they are the same product.

THEN

Show the requested identity with a source-recovery status until its independent capabilities are grounded.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMplete-20260925-SILENT-GUARDIAN-RAINBOW | Recovered historical or requested identity — documentary reconstruction;
execution not rerun

Silent Guardian / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Elsa Compiler; JP Representation; Joanna Processing; GIN Measurement; MJos Quantum Security;
Perth. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence
where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- 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

ADAPTER PROCEDURE

IF

A transaction supplies an eligible observation under a declared Silent Guardian profile.

HOW

Bind telemetry origin and provenance, update the deterministic estimate within its bounds, and retain the observed outcome
and any proposed correction separately.

THEN

Record the refinement and evidence receipt; leave unsupported integration and physical claims explicit.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at
each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-AVIATOR-CLOUD-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Aviator Cloud / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Aviator Workspace; Bangel Cloud; Shekina Continuity. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- WorkspaceIdentity — Aviator product lane
- ServiceBoundary — local or hosted responsibility
- ContinuityReference — related Shekina role
- DeploymentEvidence — actual connected environment

ADAPTER PROCEDURE

IF
The Aviator Cloud project lane is described or linked.

HOW

Reconcile Aviator workspace, Bangel Cloud and Shekina roles while preserving their separate implementation and hosting evidence.

THEN

Present the requested cloud-facing identity and the exact source/deployment gaps.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-MJOS-NEUROLOGICAL-MODEL-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Neurological Model / Rainbow

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

CROSS-SYSTEM 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.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- Observation — retained input and context
- MemoryCandidate — recalled relation with uncertainty
- PredictiveProposal — candidate outcome
- SupervisionDecision — independent gate and trace

ADAPTER PROCEDURE

IF

A neural or recalled pattern contributes to a proposed decision.

HOW

Retain observations, compare context and alternatives, preserve lowercase research states separately from runtime states and apply independent supervision.

THEN

Record a qualified software result without treating biological analogy as biological validation.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-MERMAID-QUANTUM-BLOCKCHAIN-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Mermaid Quantum Blockchain / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Mermaid Reconciliation; Teal Ledger; Shiva; Shiva Shells; GIN. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- 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

ADAPTER PROCEDURE

IF

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

HOW

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

THEN

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

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

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

Perth / Rainbow

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM RELATIONSHIP

Related identities: MJos Operating System; Bangel Language; Elsa Compiler; JP Representation; Joanna Processing; Silent Guardian. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- TargetState — desired bounded outcome
- Measurement — actual state and uncertainty
- AuthorizedCorrection — permitted response
- Reconciliation — observed consequence and retained difference

ADAPTER PROCEDURE

IF

A system compares an intended outcome with an observed state.

HOW

Represent targets, measurements, differences and permitted corrections through JP while keeping measurement separate from authority.

THEN

Record the admitted response and its observed consequence for reconciliation.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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 - Cross-system expression

MJPE-COMPLETE-20260925-LIVING-WATER-RAINBOW | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Quantum: Living Water / Rainbow

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

CROSS-SYSTEM RELATIONSHIP

Related identities: Hagar; MJ Quantum Water Protection; Perth. Preserve each named contract and source status.

PROPOSED EXPRESSION PATH

Purpose -> declared MJ scope -> Bangel expression -> Elsa compilation -> independently admitted JP -> Joanna evidence where implemented -> applicable independent review -> bounded result.

PROJECT ADAPTER

- 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

ADAPTER PROCEDURE

IF

An existing water facility or community scenario supplies its scale, measurements, engineering assumptions and operating limits.

HOW

Model water and energy flows, expose cost assumptions, capture variance and QSHM evidence, and evaluate bounded recovery proposals under operator authority.

THEN

Produce a traceable design or retrofit scenario, state what is verified, and hold physical deployment claims until their own evidence exists.

INTEGRATION STATUS

This path is documentary unless the cited source implements it. Preserve profile, context, clock, units and evidence class at each handoff. A catalog entry or logo does not install a runtime or complete a missing adapter.

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.