

# Angel / 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 - Gate, sentinel and audit

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

Elsa Compiler / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## DISCOVERY NAMES

Elsa/1; ELSA-SEMANTICS

These names aid search; current compiler naming remains Elsa.

## SOURCE STATUS AND LIMITS

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

Recovered status: implementation\_source.

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

## SOURCE REFERENCES

- language/python/src/bangel/compiler.py · line 59

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/python/src/bangel/compiler.py#L59>

- specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 14

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/ROLE-CONTRACT-RECONCILIATION.md#L14>

- Recovered nonwhite collection, page 1375

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1375>

## RECOVERED HISTORICAL CONTEXT

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

## SOURCE REFERENCES

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

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

[Recovered nonwhite collection, page 1375](#)

# JP Representation - Gate, sentinel and audit

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

JP Representation / Angel

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## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Joanna Processing / Angel

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## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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.

## 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 - Gate, sentinel and audit

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

JO Proof and Verification / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJ Governing Root / Angel

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## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

MJPE-COMPLETE-20260925-BANGEL-ROBOTICS-ANGEL | Source-backed documentary sequence — execution not rerun

Bangel Robotics / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Teal Robotics / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

A simulation or shadow-control proposal matches the preserved minority-risk profile and required gate evidence is available. Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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](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 - Gate, sentinel and audit

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

Bangel Native SDK / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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



# Bangel API - Gate, sentinel and audit

MJPE-COMplete-20260925-BANGEL-API-ANGEL | Source-backed documentary sequence — execution not rerun

Bangel API / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJPS Thermodynamics / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

A thermoelectric reference program declares its 0.1 domain grammar and bounded module, observation and demand inputs. Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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.

## 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 - Gate, sentinel and audit

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

MJmri MRI Imaging / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJMRI Optical Research / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

MJPE-COMPLETE-20260925-CUBIX-ANGEL | Source-backed documentary sequence — execution not rerun

Cubix / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJ Memory Kernel Adapters / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

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



# MJ Football Playbook - Gate, sentinel and audit

MJPE-COMPLETE-20260925-MJ-FOOTBALL-PLAYBOOK-ANGEL | Source-backed documentary sequence — execution not rerun

MJ Football Playbook / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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](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](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 - Gate, sentinel and audit

MJPE-COMplete-20260925-MJ-EGO-REV-ANGEL | Source-backed documentary sequence — execution not rerun

MJ EGO REV / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Follow indexed Bangel energy-ledger and transition rules, preserve missing quantities and append source-bound receipts.

Native/Bangel equivalence requires separate evidence.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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](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](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](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](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 - Gate, sentinel and audit

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

MJos Quantum Security / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A research protection event has a declared source, relevant entropy-health evidence and explicit integrity signals. Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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](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](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](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](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](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 - Gate, sentinel and audit

MJPE-COMPLETE-20260925-MIKA-PHYSICS-ANGEL | Source-backed documentary sequence — execution not rerun

Mika / MK Physics / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Angels Safety / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

MJPE-COMPLETE-20260925-BELLATRIX-ANGEL | Source-backed documentary sequence — execution not rerun

Bellatrix Defense / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Sister Prediction and Containment / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A monitored profile declares its primary Sister, failure strategy, observations and reserve/containment scope. Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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



# EVE Variance and Egress - Gate, sentinel and audit

MJPE-COMPLETE-20260925-EVE-ANGEL | Source-backed documentary sequence — execution not rerun

EVE Variance and Egress / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Mary / M3 Routing / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Mermaid Reconciliation / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Shiva Capital Models / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Shekina Continuity / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Belle Engineering / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Aviator Workspace / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

CHI Temporal Variance / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

WATER Uncertainty / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

An uncertainty classification supplies intervals, verified floors and evidence limits under the WATER family profile. Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

JP Semiconductor Phone / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

JP Marine Power / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

JP Peaceful Propulsion / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A peaceful propulsion research request declares purpose, measurement boundary and unresolved safety gates. Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Shiva Dual Rails / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

An internal scenario separates stability and investment purposes with applicable account evidence. Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Keep liquidity-first constraints, risk models and rail accounting distinct; preserve exposure and reconciliation per source. Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

SHIVAS Internal Reflection / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Shiva Exchange Reference / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Elsa Marketplace Reference / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Spreadsheets / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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\_prepaskey.

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 - Gate, sentinel and audit

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

JPOSMJ Portfolio / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A product candidate declares origin and independent physics, verification and participant-review requirements. Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Collect separate reviews into a portfolio envelope, retaining product-specific evidence and unresolved admission gates. Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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.

PREPASKEY\_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 - Gate, sentinel and audit

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

MJ Standard Containment / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A reference calculation declares normalized geometry, scale, gas profile and boundary conditions.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJ Reservoir Collection / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

MJPE-COMplete-20260925-SOLAR-CORE-ANGEL | Source-backed documentary sequence — execution not rerun

MJos Solar Core / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJos Solar Phone / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJos Solar Marine / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Ordinary demand must not silently consume a protected critical reserve.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJos Solar Spacecraft / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

Return a peaceful research trace with safety holds preserved.

## 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 - Gate, sentinel and audit

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

DRO Collection / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

DRO–Pearl Handoff / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

MJPE-COMplete-20260925-DRO-START-RESERVE-ANGEL | Source-backed documentary sequence — execution not rerun

DRO Start and Reserve / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Lecanto Image Truth / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

JP Semiconductor DRO–Pearl / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A proposal binds energy accounting, computational capacity and wake/reserve assumptions to one semiconductor scale. Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

Return a planned integration trace with unresolved hardware evidence.

## 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 - Gate, sentinel and audit

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

Shiva Internal Banking Reference / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Shiva Crypto Legacy Candidate / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Shiva Shells / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJos Operating System / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Database 1.0 / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Moana Service Desk / Angel

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

## GATE

A user selects a documented workflow with the required record and role context.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Match the request to the source-defined workflow, preserve record identity and state transitions, and distinguish prototype behavior from connected services.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJ Logical Layer 5 / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A neural or predictive proposal reaches the supervising decision layer.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MjQ / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJos Self-Healing Kernel / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A detected failure or discrepancy requests a recovery action.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Predictive Node Placement / Angel

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

## GATE

A named mechanism is used in a project explanation or proposed computation.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Teal Ledger / Angel

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

## GATE

A proposed ledger instruction identifies its asset, account, exact amount and admitted scope.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Preserve the applicable profile, compare conservation and reconciliation rules, and separate internal reference behavior from external transfer or financial authority.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

SHIVAS Ledger Profile / Angel

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

## GATE

A SHIVAS record is interpreted or used in a ledger example.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Select the correct dated profile and preserve its amount, transferability, internal-reflection and authority rules.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJ Digital Twin / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

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

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJ Quantum Water Protection / Angel

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

## GATE

A water-system design or protective action is evaluated.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Use the declared physical model and available measurements, separate software simulation from hardware evidence and retain uncertainty and operating limits.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Supply a simulated sensor series as if it were field water evidence; require clear provenance and prevent a treatment-performance claim from that series.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Cloud / Angel

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

## GATE

A project enters a local workspace or a proposed hosted environment.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Preserve source imports and project boundaries, trace the selected build/backup path and distinguish local capabilities from connected hosting.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Import two projects with the same file name but different roots; preserve source identities, access boundaries and recoverable versions.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Workspace / Angel

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

## GATE

A project document, program or experiment is added to the workspace.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Retain originals and duplicate lineage, associate derived results with inputs and verify the applicable save or restoration path.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Restore a checkpoint after modifying an experiment; identify the exact restored bytes and keep the newer experiment discoverable as a separate version.

## BOUNDED RESULT

Expose a traceable project view and explicit recovery boundary.

## 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 - Gate, sentinel and audit

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

Bangel Physics Lab / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

A learner changes a documented example or experiment.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Enter physically incompatible units in a formula example; produce an explicit constraint result rather than a plausible-looking numerical answer.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Statistics Lab / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System  
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## GATE

A learner changes a documented example or experiment.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Compare a missing observation with an actual zero and vary a resampling seed; preserve missingness and reproducible statistical assumptions.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJ Encrypted Message API / Angel

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

## GATE

A request arrives under the documented protocol.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Alter an authenticated message and replay a previously accepted packet; report tamper and replay behavior separately under the declared protocol.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Interoperability / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A host language calls a documented Bangel interface.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Pass an unknown field, an unsupported numeric value and a version mismatch through each claimed binding; compare protocol outcomes without assuming parity.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Teaching Pathway / Angel

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

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Translate a lesson between C# and Bangel and verify equivalent inputs, units and visible outcomes; mark features whose toolchain support is only proposed.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Java Work Order API / Angel

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

## GATE

A learner changes a documented example or experiment.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Try an invalid work-order status transition and malformed required field; preserve structured errors and the previous stored record.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Artifact Integrity Service / Angel

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

## GATE

An artifact-integrity workflow is proposed for a software package.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Define the deterministic inventory and comparison contract, identify unsafe paths and distinguish design requirements from built functionality.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Compare manifests after adding, removing and modifying files, including an unsafe path; distinguish each change and refuse traversal outside the allowed root.

## BOUNDED RESULT

Produce a reviewable specification and explicit implementation status.

## 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 - Gate, sentinel and audit

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

Manifest / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

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## GATE

A creator or visitor explores the Manifest prototype.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Attempt to turn an incomplete creator profile into a confirmed booking; preserve the distinction between presentation, availability and accepted booking authority.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Tide Casa / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A client defines a website or application need.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Route the same account through two service verticals; preserve each business context, billing purpose and client authorization.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Variance Capture / Angel

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

## GATE

A named mechanism is used in a project explanation or proposed computation.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Record opposite signed deviations from the same fixed prediction; retain sign, units, uncertainty and original observation timestamps.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Variance Pool / Angel

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

## GATE

A named mechanism is used in a project explanation or proposed computation.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Request allocation from evidence with incompatible units or missing provenance; keep the unresolved allocation visible and do not create usable authority.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Rain / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Try to derive executable behavior from the recovered concept name alone; require a recovered formal definition and a versioned contract before assigning capability.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Umbrella / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Attempt to collapse an unresolved uncertainty envelope into a scalar certainty; preserve the selected definition and its unresolved implementation boundary.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Smoke / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Present an ambiguous indicator as a verified observation; retain its evidence class and refuse an unsupported promotion to fact.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

BlueWater / Angel

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

## GATE

A local business selects a documented BlueWater service.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Keep the regional needs, scope and pilot evidence explicit and separate planning packages from deployed workflows. Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Duplicate a regional template for another business; preserve the client-specific content, permissions and distinction between preview and release.

## BOUNDED RESULT

Produce the supported service outline and next measurable delivery step.

## 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 - Gate, sentinel and audit

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

Lola / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A customer asks Lola for service or planning guidance.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Give the concierge a request beyond its configured service package; retain the question and route the unresolved commitment to a human decision.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Leverage Analyst / Angel

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

## GATE

A football play or film window is selected for analysis.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Compare a playbook route with an uncertain film track; preserve calibration, frame provenance and the distinction between modeled and observed movement.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Leverage Physics Lab / Angel

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

## GATE

A learner selects video and supplies a supported calibration or tracking observation.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Compute the documented measurements from actual inputs and label manual timestamps, coordinates and inaccessible embedded frames.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Change field calibration while holding pixel tracks constant; show its effect on distance and speed, preserving uncertainty and reproducible timing.

## BOUNDED RESULT

Explain the derived educational measurement without implying automated film evidence.

## 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 - Gate, sentinel and audit

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

Bangel Cybernetic Framework / Angel

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

## GATE

A system compares an intended outcome with an observed state.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Represent targets, measurements, differences and permitted corrections through JP while keeping measurement separate from authority.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Propose a correction that reduces measured error but exceeds allowed authority; reject the action while preserving the analytical result.

## BOUNDED RESULT

Record the admitted response and its observed consequence for reconciliation.

## 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 - Gate, sentinel and audit

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

MJos Software Supply Trust / Angel

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

## GATE

A software release or signing-key recovery scenario is reviewed.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Connect the observed build, dependency, authorization and recovery evidence without claiming absent scans or production integration.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Revoke a signing key after a release and replay its old attestation; distinguish historical signature validity from current admission and recovery policy.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJos Marine Trust / Angel

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

## GATE

A marine software artifact moves between supplier, installer and operator.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Track its source, version, authorization and service evidence across the declared vessel boundary.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Present supplier firmware evidence for the wrong vessel configuration; preserve the mismatch and hold admission despite a valid supplier signature.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

QSHM / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A hardware concept is included in a system design.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Compare a proposed hardware function with the validated software interface; mark missing device measurements and avoid reporting prototype or security-performance results.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Trust Gateway / Angel

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

## GATE

A hardware concept is included in a system design.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Specify its intended interfaces and evidence requirements without substituting a software mock-up for physical validation. Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Disconnect fleet connectivity during a proposed update; demonstrate the specified hold/recovery contract before inferring a safe physical gateway behavior.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJ Marine / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Compare two repower candidates with unequal source quality; expose assumptions, sensitivity and missing vessel measurements before ranking them.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Marine Design-Decision Twin / Angel

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

## GATE

A marine design decision is selected before hardware commitment.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Build the declared baseline, compare the specified alternatives and trace assumptions, uncertainty and validation limits.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Change a propulsion constraint after fixing a comparison set; retain the earlier assumptions and produce a new bounded decision receipt.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

MJ Physics Digital Twins / Angel

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

## GATE

A physical system requires a design or control comparison.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Connect the model, measurement and GIN variance while distinguishing known physics, modeled propositions and untested research.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Compare the pre-observation circuit model with measured inputs under changed units; preserve the model, conversion and residual evidence separately.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Effect / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Ask a visualization or simulated residual to establish a new physical effect; require independent experimental evidence and preserve the research-only status.

## BOUNDED RESULT

Retain the research claim at the evidence level actually supported.

## 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 - Gate, sentinel and audit

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

Bangel Media Compressor / Angel

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

## GATE

A media transformation or compression candidate is proposed.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Identify the actual codec implementation, preserve original bytes and compare restoration, quality and performance evidence.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Round-trip a bounded media sample under the declared codec and resource limit; separately report distortion, exactness claims, resource receipts and rollback conditions.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel C++ Service Adapter / Angel

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

## GATE

A host application sends a request through the adapter.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Send a malformed protocol response and unsupported version through the C++ adapter; retain structured failure without silently accepting incompatible data.

## BOUNDED RESULT

Return the documented result with platform and contract coverage attached.

## 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 - Gate, sentinel and audit

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

JP C++ Decimal Library / Angel

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

## GATE

A supported decimal operation is requested through the native or R interface.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Preserve representation, rounding and ownership rules and compare behavior with the matching numeric contract.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Exercise an exact decimal boundary and an overflow across the C and C++ interfaces; compare values and explicit failure contracts without binary floating-point substitution.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Rust Service Adapter / Angel

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

## GATE

A host application sends a request through the adapter.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Cancel a service request and then deliver a late response; preserve request identity, protocol validity and cancellation semantics.

## BOUNDED RESULT

Return the documented result with platform and contract coverage attached.

## 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 - Gate, sentinel and audit

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

R jpsservice / Angel

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

## GATE

A host application sends a request through the adapter.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Respect the selected service contract, ownership rules and response semantics rather than assuming complete native-language parity.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Send a vector containing missing and zero values through the service binding; preserve each distinction or report an unsupported conversion.

## BOUNDED RESULT

Return the documented result with platform and contract coverage attached.

## 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 - Gate, sentinel and audit

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

R jpdecimal / Angel

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

## GATE

A supported decimal operation is requested through the native or R interface.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Preserve representation, rounding and ownership rules and compare behavior with the matching numeric contract.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Round-trip a long decimal through the native and R boundaries; preserve exact representation and report unsupported range without silent rounding.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Studios / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A musical sequence is created or edited.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Reload a project with synchronized drum, bass and vocal lanes; compare tempo, event timing and declared processing without assuming native plug-in equivalence.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Drums / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A musical sequence is created or edited.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Replay a fixed tempo and step pattern, then alter one step; compare deterministic event scheduling and state while keeping browser and native audio lanes distinct.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Infinity / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

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

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Apply the named processing profile to the same saved input twice; record the specified parameters and avoid inferring an undocumented algorithm from the product name.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Bangel Compiler Lab / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A compiler-lab source or codec stage is evaluated.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Compile an unsupported backend or codec request through Elsa; preserve a precise unsupported result instead of claiming all staged backends are implemented.

## BOUNDED RESULT

Produce the profile-qualified artifact and current implementation status.

## 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 - Gate, sentinel and audit

MJPE-COMplete-20260925-BANGEL-DEBT-ANALYTICS-ANGEL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Debt Analytics / Angel

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

## GATE

An analytical construct is estimated from declared inputs.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Use one versioned construct definition and a traceable scoring policy, keeping calibration evidence separate from model design.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Vary one debt-model input with fixed calibration rules; show how scores change and keep exploratory prioritization separate from a validated financial conclusion.

## BOUNDED RESULT

Return a qualified estimate and the evidence needed before decision or performance claims.

## 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 - Gate, sentinel and audit

MJPE-COMPLETE-20260925-CONSTRUCT-FRAMEWORK-ANGEL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Construct Framework / Angel

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

## GATE

An analytical construct is estimated from declared inputs.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Use one versioned construct definition and a traceable scoring policy, keeping calibration evidence separate from model design.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Reverse an input orientation and remove a required weight; preserve the normalization rule and expose the missing aggregation prerequisite.

## BOUNDED RESULT

Return a qualified estimate and the evidence needed before decision or performance claims.

## 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 - Gate, sentinel and audit

MJPE-COMplete-20260925-BLUEWATER-STUDIO-ANGEL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

BlueWater Studio / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A client defines a website or application need.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Promote a client preview through a proposed release workflow; require the correct client identity and approved content before recording a published result.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

MJPE-COMPLETE-20260925-BANGEL-DOCUMENT-LIBRARY-ANGEL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Document Library / Angel

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

## GATE

A document or historical collection is added to the library.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Preserve its source identity and coverage, apply current display terminology and distinguish indexed text from recovered original bytes.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Search the same term by color, project and page; preserve source lineage and distinguish historical archive records from rewritten documentation.

## BOUNDED RESULT

Provide searchable, traceable records with missing sources and historical boundaries visible.

## 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 - Gate, sentinel and audit

MJPE-COMPLETE-20260925-BANGEL-VISUAL-EFFECTS-ANGEL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Visual Effects / Angel

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

## GATE

The Bangel Visual Effects identity is prepared for the catalog.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Recover its original scope and compare it with Lecanto and Bangel Effect without assuming they are the same product.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Compare a transformation against its source image and requested effect; document the exact transformation and keep scientific-effect claims outside unverified VFX scope.

## BOUNDED RESULT

Show the requested identity with a source-recovery status until its independent capabilities are grounded.

## 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 - Gate, sentinel and audit

MJPE-COMplete-20260925-SILENT-GUARDIAN-ANGEL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Silent Guardian / Angel

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

## GATE

A transaction supplies an eligible observation under a declared Silent Guardian profile.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Bind telemetry origin and provenance, update the deterministic estimate within its bounds, and retain the observed outcome and any proposed correction separately.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Mix authenticated telemetry with simulated samples and exceed a correction envelope; preserve provenance, enforce bounds and report incomplete instrumentation.

## BOUNDED RESULT

Record the refinement and evidence receipt; leave unsupported integration and physical claims explicit.

## 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 - Gate, sentinel and audit

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

Aviator Cloud / Angel

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

## GATE

The Aviator Cloud project lane is described or linked.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Reconcile Aviator workspace, Bangel Cloud and Shekina roles while preserving their separate implementation and hosting evidence.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Describe a cloud task without a recovered deployment contract; retain the proposed workspace relationship and mark hosting, execution and continuity support as unresolved.

## BOUNDED RESULT

Present the requested cloud-facing identity and the exact source/deployment gaps.

## 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 - Gate, sentinel and audit

MJPE-COMplete-20260925-MJOS-NEUROLOGICAL-MODEL-ANGEL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Neurological Model / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A neural or recalled pattern contributes to a proposed decision.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Retain observations, compare context and alternatives, preserve lowercase research states separately from runtime states and apply independent supervision.

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Retrieve a similar memory in a different context; preserve relation and uncertainty, then require independent supervision before any proposed decision is admitted.

## BOUNDED RESULT

Record a qualified software result without treating biological analogy as biological validation.

## 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 - Gate, sentinel and audit

MJPE-COMPLETE-20260925-MERMAID-QUANTUM-BLOCKCHAIN-ANGEL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Mermaid Quantum Blockchain / Angel

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

## GATE

A proposed ledger instruction identifies its asset, account, exact amount and admitted scope.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Preserve the applicable profile, compare conservation and reconciliation rules, and separate internal reference behavior from external transfer or financial authority.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Map a Mermaid obligation to a ledger record; require an explicit semantic adapter and do not infer quantum security or a unified deployed chain.

## BOUNDED RESULT

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

## 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 - Gate, sentinel and audit

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

Perth / Angel

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

## GATE

A system compares an intended outcome with an observed state.

Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

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

Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Import a historical module into the consolidation map; preserve its historical status and prevent documentation inclusion from marking it active or integrated.

## BOUNDED RESULT

Record the admitted response and its observed consequence for reconciliation.

## 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 - Gate, sentinel and audit

MJPE-COMPLETE-20260925-LIVING-WATER-ANGEL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Quantum: Living Water / Angel

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

## GATE

An existing water facility or community scenario supplies its scale, measurements, engineering assumptions and operating limits.  
Required scope, evidence identity, input shape and applicable independent review must be present.

## SENTINEL

Model water and energy flows, expose cost assumptions, capture variance and QSHM evidence, and evaluate bounded recovery proposals under operator authority.  
Watch stale evidence, changed source roots, unsupported type conversions and requests beyond the named profile.

## AUDIT RECEIPT

Record request identity, source version, assumptions, input, proposed result, actual outcome and reasons for HOLD or DENY. One successful stage does not override another's veto.

## SPECIFIC CHALLENGE

Compare a projected retrofit saving with verified facility measurements; preserve the stated zero verified savings and require independent water-quality and hardware evidence before physical deployment claims.

## BOUNDED RESULT

Produce a traceable design or retrofit scenario, state what is verified, and hold physical deployment claims until their own evidence exists.

## 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.