



Software support of CFIHOS business process

Standard version – 2.0 (Conformance template revision B)

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Conformance Coversheet

Software submission identifier: Kraken IM 2025-05-12

Company name: Kraken IM Limited

Kraken IM specialises in data management solutions for capital projects. The platform ensures accessible, portable data, maintains compliance across supply chains and supports decarbonisation goals.

Overview



Halcyon is a software solution developed by Kraken IM, designed to manage and streamline data collection for capital projects. It is a modern, web based, cloud-first SaaS platform that supports full API integration.

Key features of Halcyon include:

- Flexibility: Driven by user-defined information standards, including all versions of CFIHOS.
- Collaboration: Brings the entire supply chain together in one place in a central data environment.
- Trustworthiness: Ensures data is validated and delivered on time.
- Sustainability: Helps decarbonise projects by predicting, measuring, and reporting emissions using an extensive emissions library and AI-powered tools

For a short demonstration video [please visit](#).



Phase A – Project Standard Preparation

Category A1 – Store CFIHOS Standard

Demonstrate how the principal can use a release of the CFIHOS standard as a baseline for one or more projects and manage any impact from subsequent releases of the standard (e.g. different projects based on different releases).

Supported: Yes – Halcyon enables principals to store and manage multiple versions of the CFIHOS standard. Users can define a specific release as the baseline for individual projects and maintain traceability when newer releases are issued. One of Halcyon's key features is its ability to easily import and edit all versions of the CFIHOS standard.

The class library manager allows users to import, manage, and streamline CFIHOS versions and edit to their specific requirements.

Class Library management enables users to store multiple releases/versions of the CFIHOS standard. All RDL's/Class libraries can be compared in a detailed report showing differences between versions of the CFIHOS standard and any project RDL.

Software: Halcyon

Evidence: Screenshot

Evidence	Timestamp
Shows the class libraries screen and the ability to import new class libraries as well as the comparison function between different versions of RDL's	Slide 2
Properties tab of a class library (CFIHOS v2.0)	Slide 3
CFIHOS class hierarchy (tag & equipment)	Slide 4
Class property view	Slide 5
Loading of CFIHOS RDL, CFIHOS tag & equipment classes specific properties for an equipment class.	Video 13s



Category A2 – Define Project Standard from CFIHOS Template

Demonstrate how the organization or project can adapt the CFIHOS standard to their specific context.

Supported: Yes –

Halcyon supports adaptation of the CFIHOS standard to suit the specific requirements of different projects or organisations. Users can customise standard templates, including classes, attribute sets, properties, picklists, document types, and metadata, while maintaining alignment with the core CFIHOS structure.

Halcyon supports multiple hierarchies simultaneously (parent/child, functional, geographical, construction, commissioning, maintenance etc.). Relationships within hierarchies are stored as linked data, allowing users to click on PBS entities and see the breakdown relationships.

Software: Halcyon

Evidence: Screenshot

Evidence	Timestamp
Class specific template based on equipment, tag, equipment class, and tag class properties, customised from CFIHOS standard.	Slide 6
Linked data view of PBS showing all tags in a specific area code	



Category A3 – Support ITT & Contract

Demonstrate how the tender and contract award process is supported, including processing of any requests for information (RFIs) allowing the potential contractors to clarify requirements and so provide a better-informed bid.

We are not demonstrating any conformance for this category.



Category A4 – Communicate Project Standard

Demonstrate how the principal shares the project standard with the selected contractor so that they can deliver the expected information on time.

Supported: Yes – Halcyon enables the principal to compile and transmit the finalised contract RDL, including project-specific requirements, to the relevant parties. Project RDL's can be shared on a per contractor basis. All data is delivered in structured formats in alignment with the CFIHOS schema and contract terms. The final set of contractual requirements such as the RDL(s), document requirements is securely shared with the contractor in Halcyon.

This ensures immediate and structured access to all requirements needed for data collection execution.

Halcyon also allows both the principal and contractor to assign and track dates for all expected deliverables. Every data point and document can be assigned a milestone date and modifier date allowing complete lookahead for expected deliverables.

Software: Halcyon

Evidence: Screenshot

Evidence	Timestamp
Tag screen showing contract RDL data requirements	Slide 7
Project milestone configuration	



Phase B – Contractor System Setup

Category B1 – Implement Project Standard in Creation Tools

Demonstrate how the contractor can configure any information authoring features (e.g. design tools) based on the project standard, so that the principal's requirements can be honored from the outset.

This is a preparation step for Category D1.

We are not demonstrating any conformance for this category.



Category B2 – Implement Project Standard in Gathering and Aggregation Tools

Demonstrate how the contractor can configure the project standard into any features that are used to collate information from separate systems or from further down the information supply chain, so that this information can be mapped or transformed to what is needed.

This is a preparation step for Category D2.

Supported: Yes – Fundamentally Halcyon is a data collection and aggregation tool that consolidates information from internal systems and external information suppliers. The platform supports data mapping, transformation, and validation against CFIHOS-compliant templates. Software also features powerful API to integrate to other tools.

Software: Halcyon

Evidence: Screenshot

Evidence	Timestamp
Import screen showing data import from a line list data collection template and mapping and transformation of data import to contract RDL.	Slide 8
Import of line list CSV file, mapping to CFIHOS and import of data	Video 28s



Category B3 – Implement Project Standard in Validation Tools

Demonstrate how the contractor can configure any validation features based on the project standard, so that they can make sure the authored information conforms to the principal's requirements.

This is a preparation step for Category D3.

Supported: Yes – Halcyon configures validation rules against the rules configured in the RDL e.g. picklists, data types, lengths, PBS relationships. The platform supports rule-based validation across documents, tags, metadata, and inter-object relationships. All CFIHOS rules are supported as standard with the ability to create and import new business rules within the project RDL.

Halcyon provides a highly flexible Data Quality Dashboard feature, enabling principals and contractors to investigate and conduct quality checks on process information, including tags, equipment, document and relationships.

Software: Halcyon

Evidence: Screenshot

Evidence	Timestamp
Data quality dashboard showing high level data quality	Slide 9
Specific data quality report with validation failures, due dates and PO relationships	
Data quality report	Video 66s

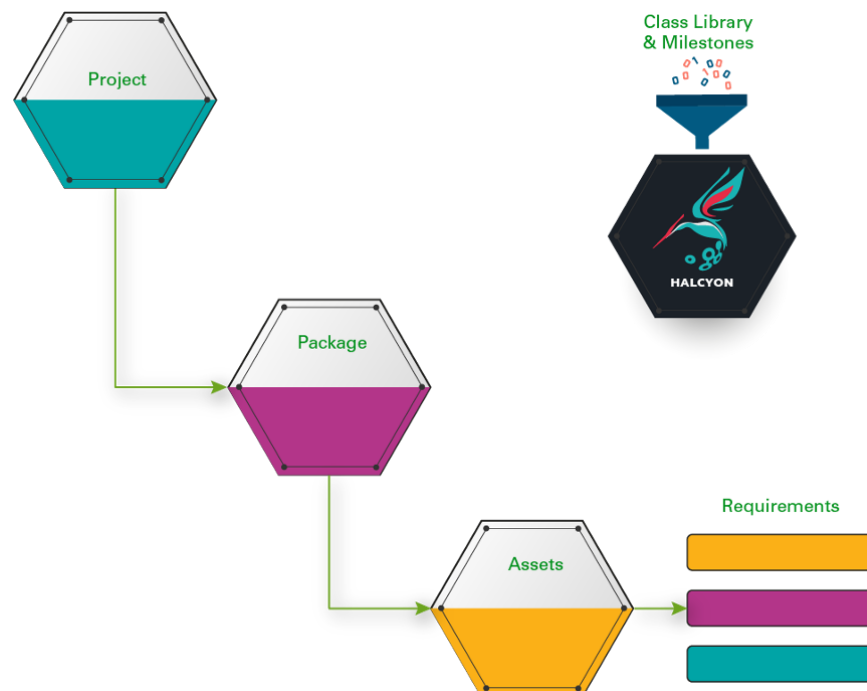


Phase C - Information Supply Chain Setup

Category C1 – Communicate Project Standard

Demonstrate how the contractor can share the project standard with any other information suppliers (e.g. subcontractors, vendors).

Supported: Yes – The contractor can communicate project-specific CFIHOS requirements clearly and consistently with subcontractors and vendors using the class libraries. Halcyon breaks down information delivery by information package and each package can have its own class library meaning each information supplier can clearly see their information requirements.



Software: Halcyon

Evidence: Screenshot

Evidence	Timestamp
Project RDL hierarchy	Slide 10
Project RDL properties	Slide 11
User filling in information against a set of project specific requirements and submitting	Video 46s



Category C2 – Support Information Collection and Aggregation

Demonstrate how other information suppliers (e.g. subcontractors, vendors) can communicate their information deliverables to the contractor, and how the contractor can store these deliverables so they can later be prepared for handover to the principal.

Supported: Yes – The contractor can effectively manage the collection and aggregation of information deliverables from subcontractors and vendors through structured assignment, progress tracking, and secure submission channels within the Halcyon platform.

The system supports assigning planned dates to all deliverables, with visual dashboards and to track submission status, identify delays, as well as manage dependencies across the information supply chain.

Halcyon provides a secure, role-based collaboration environment where subcontractors and vendors can upload their information deliverables. Built-in validation checks ensure complete, correct and consistent data is in place before acceptance. Once received, all documents and data are automatically catalogued within Halcyon's structured repository. Information is linked to relevant tags, equipment and asset hierarchies and prepared for final validation and seamless handover to the principal in the required format.

Software: Halcyon

Evidence: Screenshot

Evidence	Timestamp
Import of structured data for information delivery	Slide 12
Tag screen showing complete information delivery	Slide 13
User filling in information against a set of project specific requirements and submitting	Video 46s



Phase D - Contractor Information Delivery

Category D1 – Create Information

Demonstrate how the contractor authors information as documents and data, and later corrects that information in response to comments from the principal.

We are not demonstrating any conformance for this category.



Category D2 – Gather and Integrate Information

Demonstrate how the contractor prepares information deliverables for handover to the principal, integrating information they have authored or revised with information from elsewhere in the supply chain, so that a set of deliverables is ready to be quality checked.

Supported: Yes - Halcyon facilitates the contractor's process of compiling information deliverables for handover to the principal.

It aggregates authored or revised data with relevant information sourced from across the supply chain, ensuring a complete set of deliverables is prepared for quality assurance and delivery.

Information authored or revised internally by the contractor can be directly included in the delivery, with full version control and audit trails maintained throughout the preparation process.

Information received from subcontractors and vendors can be incorporated into the same information delivery, having been validated and processed through Halcyon workflows. Regardless of the origin and source, all information is automatically classified based on RDL based structures, including CFIHOS-compliant, including tag associations, PBS, document types, and metadata, ensuring uniformity and compatibility. Halcyon enables logical linking due to its hierarchical structure between different types of information (e.g., associating parent, child, to, from etc), allowing a coherent view of how deliverables interrelate. Both built-in dashboards and validation tools assess the completeness, consistency and compliance of the assembled assets that supports internal quality checks before any submission to the principal.

Software: Halcyon

Evidence: Screenshot

Evidence	Timestamp
Complete information set for a tag screen showing tag and equipment data combined/grouped as a complete information delivery	Slide 14
Linked documents to a tag Linked tag to a document	Slide 15
Audit screen showing all changes over time.	Slide 16
Audit screen showing comparison of changes	Video 56s



Category D3 – Check Information Quality

Demonstrate how the contractor assesses the completeness, accuracy and contractual compliance of the information deliverables before handover.

Supported: Yes – Halcyon supports the contractor in evaluating the completeness, accuracy, and contractual compliance of information deliverables before handover. By streamlining the assessment process, it helps ensure all deliverables meet required standards and are ready for transfer to any party.

Halcyon validates the presence of all required document types, tag classes, and property values for each deliverable as well as compliance to RDL business rules.

The system automatically flags missing elements (e.g., incomplete data or absent documents), ensuring that the data aligns with project requirements. The platform cross-checks tag-to-document relationships PBS, parent child etc. Any mismatches or inconsistencies are highlighted for correction. Halcyon ensures that all elements conform to the project standard including tag and document numbering formats, allocation ranges, and alignment with the approved plant breakdown structure. Non-compliant entries can be easily identified for correction via reporting.

Software: Halcyon

Evidence: Screenshot

Evidence	Timestamp
Data quality dashboard showing high level data quality	Slide 17
Specific data quality report with validation failures, due dates and PO relationships	
Data quality report	Video 66s



Category D4 – Transfer Information

Demonstrate how the information deliverables are transferred from the contractor to the principal.

Supported: Yes – All information deliverables can be transferred via one of the following mechanisms

- 1. Workflow to internal users (e.g. data remains static, but users are notified regarding a change of status**
- 2. Export of deliverables via file format (multiple formats are supported) where the data is exported for transfer**
- 3. Via the API to another system.**

Halcyon provides status notifications and audit trails confirming successful information transfer to the principal. Halcyon supports version control and update workflows, allowing contractors to revise and resubmit deliverables as needed. All exports are available via file or API and are audited.

Software: Halcyon

Evidence: Screenshot

Evidence	Timestamp
Workflow screen on data within Halcyon	Slide 18
Export screen showing building of import and mapping options	



Phase E - Principal Information Review

Category E1 – Review and Validate

Demonstrate how the principal reviews the information deliverables that have been provided by the contractor to make sure they comply with the contractual requirements.

We are not demonstrating any conformance for this category.



Category E2 – Report Review Outcome

Demonstrate how the principal communicates the outcome of their review of the information deliverables to the contractor, including details of any corrections required.

Supported: **Yes** – Halcyon enables the principal to effectively communicate the results of their review of information deliverables to the contractor. It facilitates necessary corrections, ensuring transparency and alignment before final approval.

Halcyon enables direct communication of review outcomes, allowing principals to provide structured feedback on each deliverable. Required corrections are clearly outlined and linked to specific documents or tags, ensuring contractors understand what needs to be revised. Halcyon allows the principal to formally acknowledge that submitted information meets contractual requirements through configurable workflows with a clear audit trail. Milestones for submitting revised deliverables can be set and tracked within the platform, supporting timely resolution and proactive progress monitoring.

Software: Halcyon

Evidence: Screenshot

Evidence	Timestamp
Details automated validation report	Slide 19
Audit screen of workflow data	



Phase F - Principal Handover to Business Systems

Category F1 – Deliver to Business Systems

Demonstrate how the principal's project team can prepare the project information for delivery to business systems that support ongoing activities (e.g. operations and maintenance teams).

We are not demonstrating any conformance for this category.



Category F2 – Track and Update

Demonstrate how all deliverables are tracked and updated (including final deliverables).

Supported: Yes – Halcyon enables users to track and update all deliverables by auditing assets and comparing any changes applied to previous versions of those assets as well as submit completed final deliverables. Halcyon enables contractors to submit and tag deliverables as “as-built,” ensuring final data & documentation reflects final deliverables and any changes made during project execution.

The system supports phased delivery based on criticality, class, AWP, systems, and project milestones. This ensures that high-priority information is reviewed and handed over on time without waiting for full project completion.

Halcyon includes built-in tools to track scheduled versus actual delivery dates for each information deliverable, highlighting delays and supporting proactive schedule management. Halcyon addresses concurrent engineering challenges by supporting version control, change tracking, and real-time collaboration ensuring all parties work from the latest approved data while maintaining full traceability of updates and dependencies.

Software: Halcyon

Evidence: Screenshots

Evidence	Timestamp
Audit trail of all deliverables showing all changes by all users along with time stamps	Slide 20
Comparison view showing delta between different deliverables	Slide 21
Compilation of data for export	Slide 22