

PRODUCT WORKFLOW STUDY

From an exploded diagram callout to a clickable, traceable service part

A visual parts workflow showing how Corexa can map OEM callouts to exact catalogue identities, expose only verified hotspots and keep the diagram connected to job preparation.

Evidence level stated clearly throughout

OEM callout

Starting evidence

Exact part

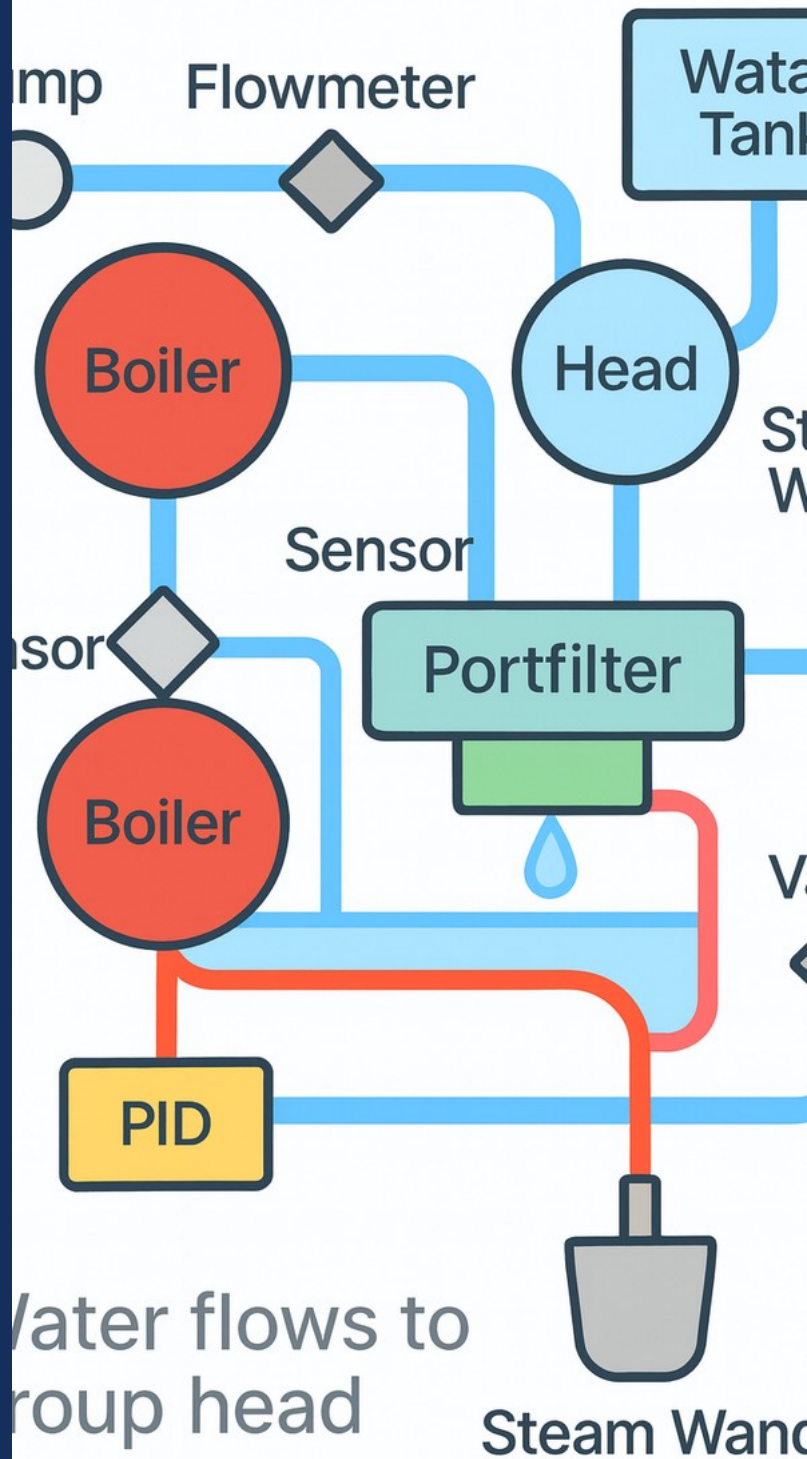
Identity mapping

Clickable

Only when safe

Job-linked

Operational use



THE CHALLENGE

Why the existing process breaks down

The workflow becomes unreliable when evidence, ownership and next actions are separated across documents, messages, spreadsheets or individual memory.

01

Exploded diagrams are visual, not relational

A callout number on a drawing does not automatically identify the current catalogue row.

02

Page numbers and callouts repeat

The same number can mean different things across assemblies or revisions.

03

OCR can misread identifiers

A plausible text extraction is not enough to release a clickable part.

04

Multiple variants can share geometry

Visual similarity does not prove exact fitment.

05

A diagram can create false confidence

Making every callout clickable implies a level of certainty the source may not support.

06

The useful moment is inside the job

A diagram in a document archive still leaves the technician to re-search the part elsewhere.

The central risk

A beautiful exploded diagram can cause wrong-part selection if uncertain callouts become interactive before identity and fitment are verified.

THE OPERATING MODEL

A connected workflow around the equipment record

Corexa keeps identity, evidence, operational state and the next decision connected so one workflow can carry context into the next.

1

Ingest the source page

Keep the OEM document/page identity and model scope.

2

Map callout to part identity

Resolve part number/component using exact evidence.

3

Apply recommendation-safe gate

Release only callouts with sufficient identity and fitment support.

4

Place the hotspot

Store the click region on the correct diagram page.

5

Open in job context

Let the technician move from visual component to part record without leaving the workflow.

COREXA CAPABILITY	OPERATIONAL CHANGE	WHY IT MATTERS
Source-scoped mappings	Callouts retain model, source page and evidence.	Repeated numbers do not collapse across unrelated drawings.
Identity aliases	Known part-number variants can map to one canonical part.	Legacy/OEM naming can resolve without duplicating catalogue stock.
Residual audits	Unmapped callouts are tracked as blockers rather than silently ignored.	Diagram completeness is measurable.
Verified hotspots	Click regions can be recommendation-safe and independently reviewed.	Interactivity reflects evidence quality.
Part linkage	Hotspots connect to canonical catalogue identities/components.	A click can open the same part used by jobs and inventory.
Job modal integration	Technicians can access the diagram while preparing or performing work.	Visual knowledge becomes operational instead of archival.

CREDIBILITY STANDARD

What is supported - and what is not yet claimed

The evidence boundary is explicit: product capability, live repository/production evidence and future outcome hypotheses are not treated as the same thing.

✓ Current production foundation

Corexa now stores thousands of diagram callout mappings and a growing set of verified clickable hotspots.

✓ Recommendation-safe release

Callouts can remain mapped but non-clickable until fitment/identity evidence is strong enough.

✓ Residual review

Unresolved diagram regions are explicitly audited for later work.

✓ Pilot measurement required

Selection accuracy and lookup-time improvement need field measurement.

Not yet claimed: This study does not claim full diagram coverage for every OEM or that every mapped callout is safe to order. Non-clickable and unresolved regions remain deliberately visible to the review process.

Measurement plan for the publishable version

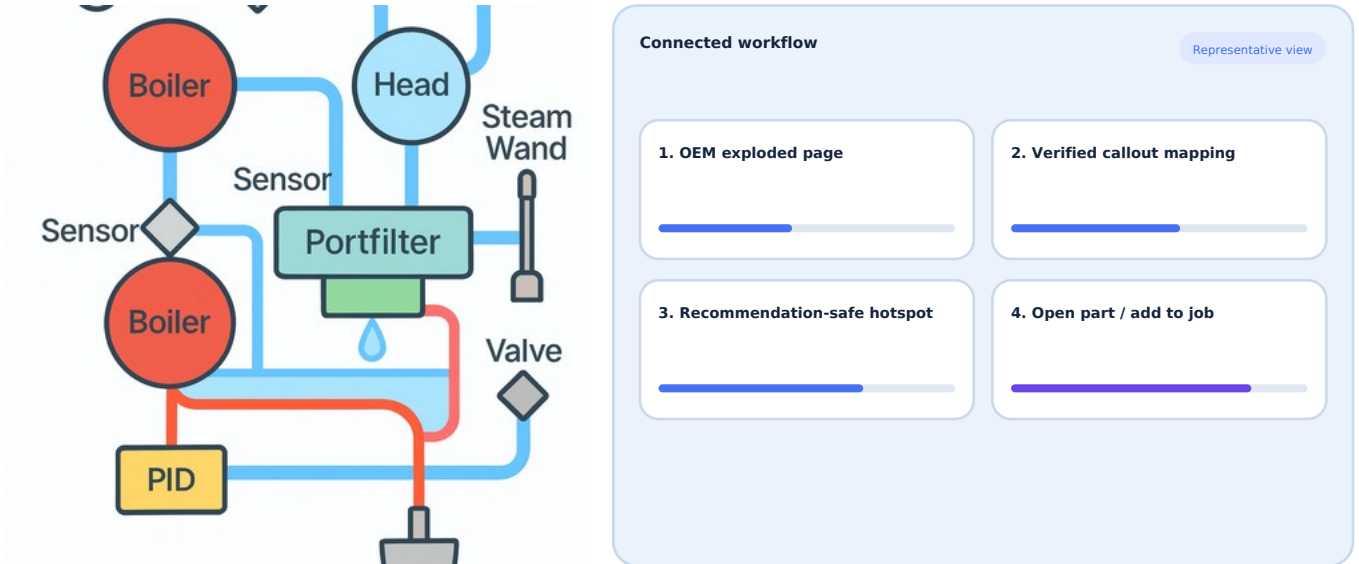
MEASURE	EVIDENCE SOURCE	CREDIBLE REPORTING
Clickable coverage	Hotspots / verified callout mappings	Percentage of verified mappings released as clickable.
Lookup time	Timed technician task	Median time to identify a required part with/without diagram.
Wrong selection	Part feedback + job outcomes	Incorrect part selections originating from a diagram.
Residual closure	Residual audit ledger	Unresolved exact-safe callouts remaining by model.
Source traceability	Diagram source + page evidence	Percentage of hotspots with durable OEM provenance.
Job conversion	Diagram interactions + planned parts	Clicks that become confirmed job parts.

"Visual convenience should be released only after identity evidence is strong enough to support the click."

MAKE THE STORY TANGIBLE

Show the exact path from drawing to job-ready part

Use the live Corexa interface for publication, keep representative/demo content labelled, and show the exact state transition the workflow is meant to prove.



Recommended evidence-building sequence

Phase 1 - Priority models	Phase 2 - Field validation	Phase 3 - Measured expansion
Build the publishable proof layer		
Replace representative views with dated interface screenshots, system-derived measures and participant-approved results.		

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Publication note: capability descriptions are repository/production evidence. Confirm deployed workflow, permissions and data quality before presenting capability as a measured customer outcome.