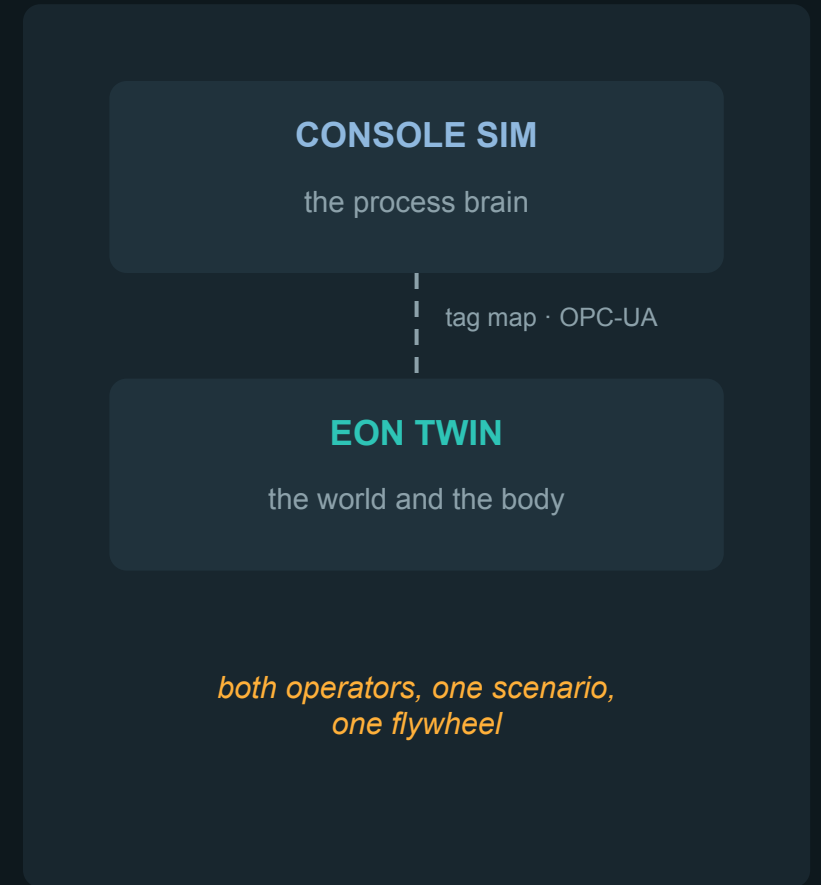


One drill, both operators.

How EON links to console simulators — Vantage, Honeywell, AVEVA — so the board operator and the field operator finally train together, and every drill feeds the digital twin.

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THE PROBLEM

Major accidents live in the gap between the board and the field

THE BOARD OPERATOR

- Trains on a console simulator: a deep process model behind real DCS screens.
- Drills the risky moments — startups, shutdowns, upsets.
- But the field operator in the drill is imaginary: a trainer saying "pretend the valve is closed."

THE GAP

THE FIELD OPERATOR

- Works the real equipment — valves, pumps, isolations.
- Trains separately, disconnected from the console and the process dynamics.
- Never rehearses the conversation with the board — the one that fails in real accidents.

BP Texas City, 2005 — the canonical case: board and field each held half the picture during a startup. Industry analyses find major accidents are several times more likely during exactly these abnormal operations.

No overlap in what each is best at

CONSOLE SIMULATOR (OTS)

- Rigorous unit dynamics: thermodynamics, columns, compressors — decades of process fidelity.
- Emulated control-room console: the operator's real DCS screens, exactly as on shift.
- Trains the board operator on startups, shutdowns and upsets.
- Vendors: Honeywell UniSim, AVEVA, Yokogawa, Emerson, Vantage.

“The brain of the unit.”



EON WORK INTELLIGENCE

- Intelligent 3D twin — 8,000 components that know what they are and do (EON Universal).
- The field operator's world: 3D, phone, AR glasses, on-site with Field IQ.
- Genesis procedures + Situation Room's 120 real accident scenarios.
- The compounding loop: Assess IQ measures, Compound IQ writes the twin.

“The world and the body.”

The linked drill — how a session actually runs

1 Pick the danger

The Situation Room supplies the scenario — one of 120 real accidents, e.g. a stored-energy isolation.

2 Load the steps

Genesis loads the field procedure; the twin (Universal) is the shared stage.

3 Board sits down

The board operator takes the console simulator — unchanged, exactly as today.

4 Field steps in

The field operator enters the EON world — 3D twin, or on-site through Field IQ.

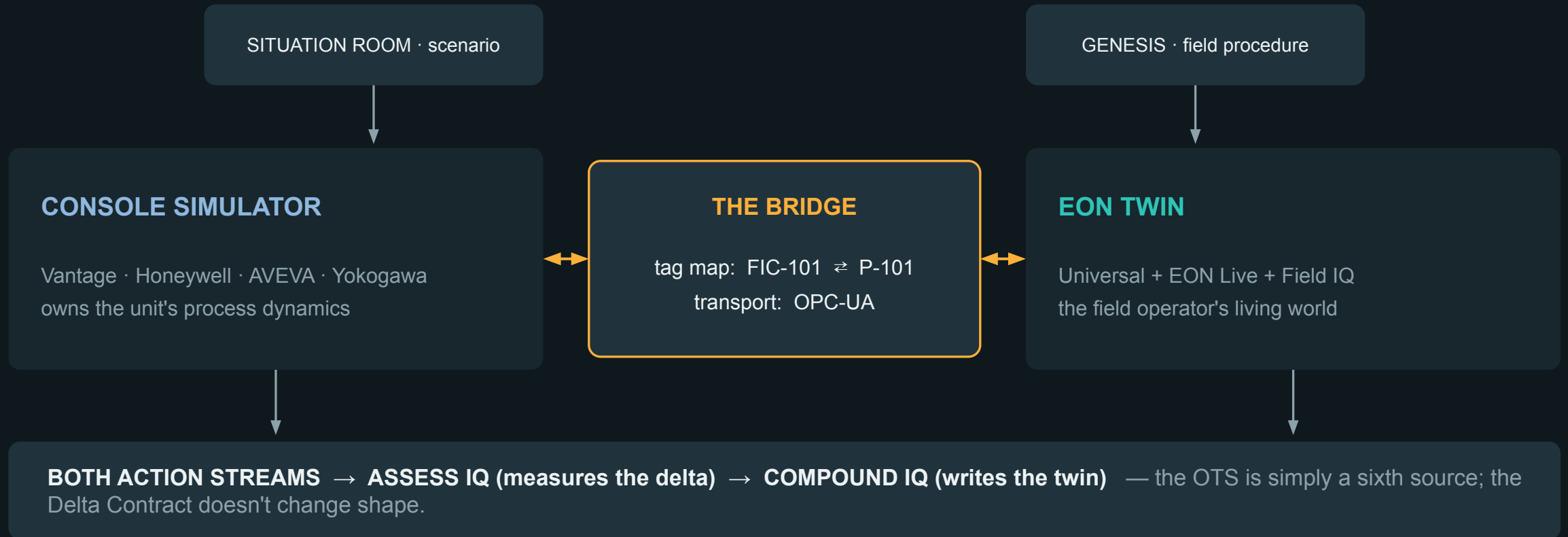
5 Actions cross over

Field closes valve V-101 → the bridge writes the tag → the process model reacts → pressures move on the board's screens.

6 The loop keeps it

Both action streams flow to Assess IQ; Compound IQ writes the lessons into the twin.

The bridge is small: a tag map and a standard data link



The P&ID is the translation dictionary — and EON already reads P&IDs. The tag map is nearly free for us.

One truth at a time — the physics ownership rule

Two physics engines fighting over the same plant is the dual-truth bug in real time. So during a linked drill:

THE OTS OWNS

- Unit-level process truth: thermodynamics, flows, trends, alarm behavior.
- What the board operator's screens show.

EON LIVE YIELDS

- Drops to equipment-level physics: torque on a valve, the feel of the machine.
- Renders the living world the field operator moves through — driven by the OTS's numbers.

Same doctrine as the twin itself: **one writer per truth.** It keeps the drill honest — and it is exactly why an OTS vendor can see us as a partner, not a threat.

The overlap is one square — and we concede it on purpose

THE OVERLAP

Exactly one square: EON Live vs their process model. We yield it deliberately — their thermodynamic fidelity is decades deep, and chasing it would be years of work for a solved problem.

WHAT THEY CANNOT DO

No intelligent 3D twin. No field operator world — no AR, no phone, no on-site recognition. No procedures, no accident library, no loop that learns from every drill.

WHAT WE SHOULD NOT DO

Rebuild rigorous unit-level process dynamics. Orchestrate the commodity: their model plugs in as the unit's brain, and stays switchable like every engine we use.

THE POSITIONING RULE

EON Live is equipment-level physics plus the living visual world. It is never marketed as "full process simulation." Hold that line and every OTS vendor is a channel.

The puzzle pieces don't overlap — they interlock.

Four things nobody gets today

1 A drill nobody else sells

Board + field rehearsing the same accident together, live — OTS vendors can't offer it alone, and neither can anyone without their process model.

2 Trains where accidents live

The board-field coordination failure — the pattern behind the worst industrial accidents — finally gets rehearsed, not just written up afterwards.

3 Their install = our doorway

A customer buying a console sim (as Exel did with Vantage) stops being a lost deal and becomes a socket for the whole EON stack.

4 Every drill feeds the flywheel

Both operators' actions become deltas: Assess IQ measures them, Compound IQ writes the keepers into the twin. The asset appreciates with use.

The ruling: socket now, plug on pilot

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NOW — THE SOCKET

costs paper only — already in the spec

- OTS defined as the sixth source in the Delta Contract.
- Physics ownership rule written down.
- Bridge design named: tag map + OPC-UA, P&ID as the dictionary.

ON A PAYING PILOT — THE PLUG

e.g. Exel + their Vantage console simulator

- Get the vendor's tag list + OPC-UA endpoint.
- Map tags to the facility twin (the P&ID does the heavy lifting).
- Run one linked Situation Room scenario, board + field, end to end.

Priority: below closing the Compound loop. The loop is the moat; the bridge is a door — and a door is only worth opening once the loop behind it exists.

The console sim becomes the sixth voice feeding the flywheel.

Their brain. Our world. One loop.

“Orchestrate the commodity. Own the compound.”