



THE GRID DOESN'T WAIT. NEITHER SHOULD YOU.

How the world's most demanding utility operators are putting AI to work, and turning every engineer into their best engineer.

\$20M

Estimated annual savings from smarter parts
& inventory management

20%

Potential overstock reduction for major US
utility operators

48–72h

Advance warning before equipment failures
occur

RESOLVE MAKES EVERY ENGINEER YOUR BEST ENGINEER.

Utility infrastructure built in another era still keeps the lights on for millions. But the engineers who know it intimately are retiring faster than their knowledge can be captured. Resolve helps close the knowledge gap between your veterans and apprentices, creating consistency in execution. Managing a patchwork of legacy systems, inconsistent data formats, and a distributed workforce means backlogs grow, overstock soars, and a single missed failure can cascade into a full outage. The problem is not the grid. It is the gap between the intelligence required to run it and the tools currently available.

THE CHALLENGE

When experienced engineers retire, their knowledge of part codes, failure patterns, and system quirks goes with them. Data across acquired systems — each categorized differently — makes it impossible to see a clear picture of what parts exist, where they are, and whether they will work. The result: duplicated inventory, wasted spend, and technicians dispatched without the information they need.

THE NEXUS BLACK ANSWER

Nexus Black takes data from all your systems and makes it AI-ready — enriching complex part strings with clear descriptions. Engineers use natural language to query inventory such as "Show me all switchgear panels in Illinois." Where a specific part is unavailable, the system surfaces in-stock alternatives automatically. Knowledge that once lived in people's heads is now embedded in every workflow.

RESOLVE — INDUSTRIAL AI IN THE FIELD

PUT AI IN EVERY TECHNICIAN'S HANDS.

Resolve puts Industrial AI directly on a technician's device — identifying assets, diagnosing faults, guiding repairs, identifying parts, and flagging failures before they happen. It works alongside your existing enterprise stack: IFS Cloud, SAP, Salesforce, IBM Maximo, Oracle — from day one.

01	02	03	04
ASSET IDENTIFICATION Identifies equipment through a phone camera. Full maintenance history loaded in seconds. No manual lookups.	AI DIAGNOSIS & GUIDED REPAIR Multimodal diagnosis via images, video, voice, and vibration. Built for engineers in gloves. Gets smarter with every job.	INVENTORY & PARTS INTELLIGENCE Maps faults to the correct part. Checks stock across all locations. Right part, first time — no repeat visits.	PREDICTIVE MAINTENANCE Flags emerging failures 48–72 hours ahead. Work orders auto-generated when parts, people, and windows align.

FEATURES

AI-NATIVE ARCHITECTURE	GIS-CENTRIC DESIGN	MULTIMODAL FAULT CAPTURE	NATURAL LANGUAGE SEARCH
48–72H PREDICTIVE ALERTS	REAL-TIME DISPATCH-TO-FIELD SYNC	WORKS ALONGSIDE YOUR EAM	

PROVEN IN THE FIELD

25%

Faster fault resolution — more jobs per technician per day

48h

Advance warning before failures — work orders auto-generated

7,000+

IFS employees across 80+ countries. Decades of operational knowledge in every model

SAVE US A HARD HAT.

IFS Nexus Black deploys fast, integrates with what you already run, and solves hard utility problems in weeks — not years. Talk to us about where your operations are losing ground.

[Request a briefing →](#)

CASE STUDIES

Major US utility

ENERGY & GRID
OPERATIONS

HOW DO YOU FIND WHAT YOU NEED WITHOUT LEARNING 15-DIGIT PART CODES BY HEART?

A major US utility was managing parts data across multiple acquired systems, each categorized differently. As experienced engineers retired, institutional knowledge embedded in Part IDs went with them. New hires couldn't locate components efficiently, leading to duplicated inventory and spiraling overstock costs across the network. Nexus Black enriched the operator's fragmented data and enabled natural-language inventory search across all locations. Engineers query by plain English; the system returns immediate, accurate results — and surfaces qualified alternatives where the exact part isn't in stock.

\$20M estimated annual savings. Smarter data categorization could cut overstock by up to 20%, eliminating duplicated and stranded inventory across the entire network.

Major US utility

ENERGY & GRID
INFRASTRUCTURE

HOW DO YOU MAKE AN ENERGY GRID BUILT IN ANOTHER ERA WORK IN THIS ONE?

A major utility operates infrastructure spanning multiple decades, with operational data trapped in systems built in the nineties — never designed to communicate with each other, let alone with modern AI. The challenge is not complexity alone; it is the volume of valuable intelligence buried in formats today's engineers cannot efficiently access or act on. Nexus Black digs out industrial data locked in legacy systems and reads complex plant schematics with the nuance of a process engineer 20 years on the job — translating decades of accumulated infrastructure knowledge into actionable intelligence for today's teams.

Legacy systems made AI-ready. Decades of siloed infrastructure data translated into natural-language intelligence — accessible by every engineer from day one of deployment.