Diskover

SOLUTION BRIEF | SEMICONDUCTOR AND EDA

From first simulation to tape-out, every file accounted for.

One enriched metadata catalog for design, simulation, verification, and scratch across filers, object, cloud, and archive.

103B+ files indexed across multiple sites for 4,000+ engineers

60-80% of premium storage tied up in failed runs, reclaimed

1.4B files indexed in two hours, ~200K files per second

At a glance

KEY CHALLENGES

Simulation, verification, and scratch multiply across filers, clouds, and archives faster than a cleanup script can follow. Jobs over-allocate 250 to 400 percent, and failed or canceled runs hold 60 to 80 percent of premium capacity. When a heavy job overloads a filer, tracing it across symlinked file systems takes days while the tape-out date stays fixed. Design IP spreads across sites with unclear ownership, and the regression output that could train models sits uncataloged.

THE SOLUTION

Diskover indexes billions of files across NFS, SMB, object, cloud, and archive into one catalog, enriched with context, such as project, block, and tool, that your flow already leaves in file names, extensions, and directory structure. Teams trace a failed run to the files behind it in seconds, clear cold scratch and waveform output by policy, keep an audit trail of every action, and curate clean datasets from the regression output they already produce.

WHY IT MATTERS

Tape-outs hold their dates, because a failed job is found and resolved before it cascades. Premium tiers come back from canceled runs, so the next capacity purchase is smaller or later and outages from over-utilization become rare. Export control and access reviews run from one current inventory. Each team sees the files it is responsible for, so exploring the catalog stays within the group's own work.

Why Diskover

ONE CATALOG ACROSS EVERY FILER

Index billions of files across NFS, SMB, object, cloud, and archive into one searchable view, by fields such as project, block, tool, and age, so a single search spans scratch, regression output, and tape-out archive.

TRACE A FAILED RUN TO ITS FILES

When a heavy job overloads a filer, follow the run to the files behind it across symlinked file systems in seconds. What took days of tracing becomes one search with the answer attached.

EDA FLUENCY IN THE METADATA

Diskover recognizes what your flow leaves behind. Waveform files, fsdb, simulation logs, netlists, layout databases, and scratch output are identified by metadata such as extension, path, owner, and age, then grouped into the categories your teams already use.

DESIGN IP YOU CAN ACCOUNT FOR

See where controlled design data lives, who owns it, and which systems hold copies, so an export control review or an access audit starts from a current inventory rather than a site survey.

SCRATCH THAT CLEARS ITSELF

Policy-driven workflows remove cold scratch, old fsdb and waveform files, and output from canceled runs, then keep the catalog record, so premium capacity comes back between regressions without custom scripts or a cleanup ticket.

ASK IN PLAIN LANGUAGE

Ask the catalog "which scratch directories from canceled runs are still on premium storage" and get matching files back with a recommended action to approve, such as tag, tier, remove, or archive. AI-assisted, human-approved.

About Diskover

Diskover helps enterprises structure unstructured data across cloud, on-prem, and edge environments, making it easier to search, govern, optimize, and deliver file data for compliance, analytics, and AI-ready workflows.

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Diskover

SOLUTION BRIEF

How it works

1 CONNECT
STORAGE OR IT TEAM

Point Diskover at your filers, object stores, cloud buckets, and archive tiers, including symlinked and automounted paths. Indexing runs in place, so design data stays where the flow and the scheduler expect it.

Example: every filer, including symlinked paths, is cataloged where it sits.

2 CATALOG
AUTOMATION

Every file becomes a searchable record with rich metadata, such as name, path, and owner, enriched with project and block tokens from the path, directory lineage, and classification tags.

Example: a waveform file now shows its project, block, tool, and age.

3 CURATE
ANY AUTHORIZED TEAM

Tag by fields such as project, block, tool, and run status. Build saved searches for what teams ask weekly, such as scratch from canceled runs, waveform files past their review window, or files tied to a taped-out block.

Example: a design engineer or CAD manager saves "canceled-run scratch".

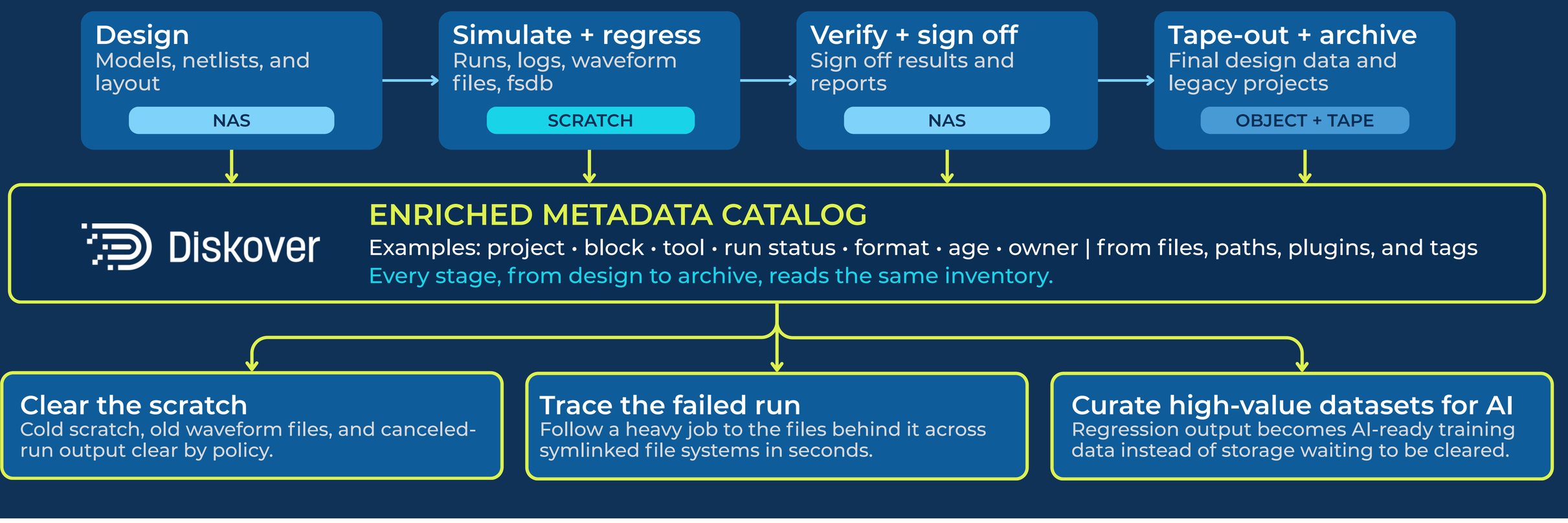
4 ACTIVATE
BY POLICY

Run cleanup, tiering, and archive by policy with a full audit trail shipped to your logging service, and deliver curated design and regression metadata to analytics and AI pipelines through the API.

Result: one semiconductor company saves $250K a year in opex through automated cleanup.

WORKS ACROSS Cloud · On-prem · Hybrid · NAS · SAN · Object · Tape · Archive · Data lakes · Lakehouses · AI/BI/ML

Every block, run, and waveform in one view.



Key outcomes

TAPE-OUTS HOLD THEIR DATES

Failed and runaway jobs are traced to their files in seconds instead of days, so a filer problem is resolved before it cascades into a schedule slip.

PREMIUM CAPACITY COMES BACK

Cold scratch, old waveform files, and output from canceled runs clear by policy, freeing 60 to 80 percent of the capacity they held and deferring the next purchase.

IP TRACKED, AI-READY

Export control and access reviews start from one current inventory, and the regression output your flow already produces becomes curated, AI-ready training data.

GET STARTED

Ready to see it on your estate?

Start with a 30-day proof of concept on your own data, and recover your investment in 3 to 6 months.

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