BCD Field Intelligence System
DWS
Powered by Dynamic Workflow Solutions

SOLUTION OVERVIEW

Real-time case collaboration, built for the moment of capture

Built for the moment of capture

A real-time case collaboration platform that lets officers, agencies, prosecutors, and other stakeholders work the same case content. Platformed on the industry's leading ruggedized laptop, FIS delivers physical survivability and evidentiary integrity at the scene, not after the fact.



SHA-256
hash, timestamp, and custody record created at the point of collection

No transcoding
proprietary video rewrapped into standard MP4, originals left intact

Offline mode
ingest, hash, and analyze evidence with no network connection

3 deployments
SaaS, private cloud, or on-premises, in a single hybrid design

THE CHALLENGE

A thousand proprietary formats
Video arrives from countless camera systems, each with its own format that VMS, AI, and redaction tools cannot readily open.

Custody gaps invite challenge
Footage that passes through an SD card, a patrol car computer, and a network transfer before logging leaves a gap a defense attorney can attack.

Scenes without connectivity
Crime scenes frequently have poor or no connectivity, so cloud-first tools stall exactly when evidence is collected.

Investigations wait on uploads
Cloud upload delays and slow transcoding keep investigators from learning whether footage is even relevant.

WHAT FIS DOES

Real-time case collaboration
Multiple officers, agencies, and prosecutors work the same case with shared notifications, messaging, and status.

Hashing at collection
Every item ingested receives a SHA-256 hash and an audit-trail entry built to hold up under cross-examination.

Offline ingest and sync
Runs locally in the field, then syncs or federates to central storage once connectivity returns.

Evidence normalization
The FIS Evidence Engine rewraps proprietary video into standard MP4, making it usable and AI-ready immediately.

GUID-linked derivatives
Field redactions and witness transcripts stay cryptographically tied to the untouched original evidence.

AI at the scene
Visual enhancement, redaction, transcription, deepfake detection, and agentic AI execute on real evidence locally.

HOW IT WORKS

1. **Ingest**
Cameras, recorders, drives, and SD cards connect via the included cable kit.

2. **Hash**
SHA-256 hash, timestamp, and custody record are created on the spot.

3. **Normalize**
Video is rewrapped to MP4 and linked to the preserved original.

4. **Analyze**
AI services run locally to triage footage before leaving the scene.

5. **Sync**
Case content federates to central storage when the network returns.

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SOLUTION OVERVIEW
Built on Dell, accelerated by NVIDIA

Built on Dell. Accelerated by NVIDIA.

FIS runs on the Dell Pro Rugged 14 laptop equipped with NVIDIA's Grace Blackwell superchip, purpose-built to run demanding AI workloads locally without a cloud round trip. The rugged laptop becomes the automation layer in the field, augmenting your existing DEMS and automation solutions.



DELL Technologies NVIDIA

DELL PRO RUGGED 14 LAPTOP + FIS CABLE KIT

DEPLOYMENT OPTIONS

1

Local and offline

On the rugged laptop, FIS runs in local mode, ingesting and hashing evidence at the scene with no network required.

2

Private cloud and on-premises

Open, view, and secure proprietary video evidence on-premises, with no cloud upload delays or slow transcoding.

3

SaaS

A hosted option for agencies that prefer it, within the same hybrid design that syncs field work back to central storage.

FIELD PLATFORM

Role	Dell, NVIDIA, and BCD platform	Contribution in the field
Field device	Dell Pro Rugged 14 laptop	Physical survivability at the scene, so the evidence workflow goes where the investigation goes.
AI compute	NVIDIA Grace Blackwell superchip	Enhancement, redaction, transcription, deepfake detection, and agentic AI without a cloud round trip.
Evidence ingest	Laptop I/O and peripherals package, plus FIS cable kit and connectors by TEEL technologies	FIS contains a kit comprised of the cables and connectors for the majority of the physical connections necessary to the retrieval of evidence in the field, from body cameras, interview recorders, drives, and SD cards.
Device security	Encryption, TPM, and smart-card or biometric login	Aligns with the FIS Authentication module for CJIS-governed evidence, with no weak link once the device leaves the building.
Central storage	On-premises, hot cloud, and tiered offline storage	Field work syncs to the same model BCD already runs on the archival side.

WHERE IT FITS IN THE BCD ISG ARCHITECTURE

LAYER 01
Edge Hardware

- **FIS field kit** (FIS)
- **Rugged laptop, GB10** (FIS)
- Digital Asset Workstation
- Linux and Windows servers

LAYER 02
Orchestration

- Digital Asset Engine
- Hybrid 5.0 e-DAMS
- Data Central Evidence Engine
- Authentication, deepfakes

LAYER 03
AI-Driven Processing

- Redaction
- Transcription
- Translation
- Visual search, agentic AI

LAYER 04
Storage and Retention

- On-premises Dell
- Hot cloud object
- Tiered cloud
- Offline, long-term

Intelligently managed end to end by the Digital Asset Engine and Hybrid 5.0

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SOLUTION OVERVIEW

For the evidence management community

SECURITY AND CHAIN OF CUSTODY

Hashed at collection
The closer the hash is to the moment of collection, the stronger the chain of custody.

Linked work product
GUID-linking ties every field derivative to its original, so nothing done at the scene undermines admissibility.

Device protection
Encryption, TPM, and smart-card or biometric login line up with the FIS Authentication module.

Originals preserved
Source files stay uncompromised for law enforcement grade evidentiary purposes.

Court-ready audit
Every ingest creates an audit-trail entry built to hold up under cross-examination.

CJIS aligned
Built for CJIS-governed evidence, with no weak link just because the device left the building.

WHY BCD ISG

- **Evidence integrity at the scene:** custody begins at collection, not after the fact.
- **Rugged by design:** engineered on the Dell Pro Rugged 14 for physical survivability.
- **AI without a round trip:** NVIDIA Grace Blackwell compute runs workloads locally.
- **Hybrid by default:** SaaS, private cloud, or on-premises, online or offline.
- **Edge to archive:** field work syncs to the on-premises, hot cloud, and tiered offline model BCD already runs.
- **No rip-and-replace:** FIS augments your existing DEMS and automation solutions.

WHO IT'S FOR

Patrol officers · Detectives and investigators · Crime scene units · Prosecutors and DAs · Partner agencies · IT and evidence technicians

WORKS WITH

Dell · NVIDIA · Dynamic Workflow Solutions · existing DEMS and VMS

alongside AI analytics, redaction, transcription, and deepfake detection tools.

GETTING STARTED

1. **Discovery**
   Where is evidence collected today, how long until it is logged, and where does connectivity fail?
2. **Field demonstration**
   See FIS ingest, hash, and normalize your own proprietary footage on the rugged laptop.
3. **Design and sizing**
   BCD selects the deployment model and aligns field kits with your central storage.
4. **Deploy and train**
   BCD integrates with your DEMS and trains officers and evidence staff on field workflows.

- **Protect evidentiary integrity**
  Hash, timestamp, and custody are recorded at the scene, not hours later.
- **Investigate sooner**
  Know in the field whether footage matters, without waiting on a network.
- **Work without a network**
  Operate offline, then sync to the storage model your agency already runs.

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