



Cyclops by Redflag AI with TVU MediaMesh®

Live Forensic Watermarking and Anti-Piracy for Broadcasters and Rights Holders — find unauthorized restreams, trace leaks to their source, and act while the event is still live.

PROTECTING LIVE CONTENT FROM PIRACY

Broadcasters, sports leagues, rights holders, and live event producers need to protect valuable video as it moves through contribution, distribution, and viewing workflows. Unauthorized restreams divert audiences and undermine subscription, advertising, and licensing revenue — often while the event is still live.

Cyclops by Redflag AI with TVU MediaMesh adds invisible forensic watermarking directly into live workflows. Combined with Redflag's managed piracy monitoring, customers can find unauthorized streams quickly, trace leaks to the protected feed or distribution source, and take action — within their existing video infrastructure.

SOLUTION OVERVIEW

Cyclops by Redflag AI

Content protection platform combining forensic watermarking, automated piracy detection, source attribution, and enforcement for live and on-demand video.

TVU MediaMesh®

Scalable, cloud-first IP video routing and orchestration platform. Cyclops runs as a processing container within MediaMesh workflows via SRT.

Together, Cyclops and TVU MediaMesh let broadcasters and rights holders embed invisible forensic watermarks into live feeds as they move through TVU workflows — then detect, attribute, and act on unauthorized restreams across web, social, and IPTV sources.

Forensic Watermarking

Anti-Piracy

SRT

Live Sports

OTT

IPTV

HOW IT WORKS

1 Route via MediaMesh

Live feeds from sports, broadcast, or premium events are routed through TVU MediaMesh and sent via SRT to the Redflag Cyclops processing container.

2 Invisible Watermark Insertion

Cyclops embeds an invisible forensic watermark into the feed and returns a watermarked SRT output for onward distribution.

3 Protected Distribution

The protected output continues to broadcast, OTT, or delivery partners through TVU MediaMesh routing and transport.

4 Detect, Attribute & Enforce

Redflag monitors web, social, and IPTV sources for restreams, decodes recovered watermarks to identify the leak source, and supports takedowns and search delisting.

AT A GLANCE

- Invisible forensic watermarking
- Live & on-demand protection
- Automated piracy detection
- Web, social & IPTV monitoring
- Leak source attribution
- Takedowns & search delisting
- SRT in / SRT out workflow
- Seamless MediaMesh integration
- Managed monitoring services
- Subscription or per-event

JOINT HIGHLIGHTS

Built Into the Workflow

Cyclops runs inside TVU MediaMesh via SRT — no changes to existing broadcast infrastructure.

Act While It's Live

Find restreams and take action during the event's commercial window.

Trace Leaks to the Source

Recovered watermarks map to the protected feed, distributor, or session.

CONTACT

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SOLUTION USE CASES

Live Sports & Premium Events

Monitor unauthorized restreams and take action during the event's commercial window — protecting subscription, advertising, and licensing revenue.

Broadcaster & Distributor Feeds

Mark individual outputs with distinct identifiers to help pinpoint which distribution path is leaking.

OTT Session Attribution

Where integrated, use session-specific watermarking to trace unauthorized sharing back to the originating session.

Entertainment Catalog Protection

Detect unauthorized re-uploads and pursue removal long after the original broadcast or release.

WHY IT MATTERS

End-to-End Anti-Piracy Workflow

Discovery, forensic watermarking, source attribution, and enforcement in one operational workflow — with evidence and results in a single platform.

Software Plus Managed Services

Redflag pairs the Cyclops platform with managed piracy monitoring and enforcement, scoped per event or as an ongoing service.

Built for Live Events

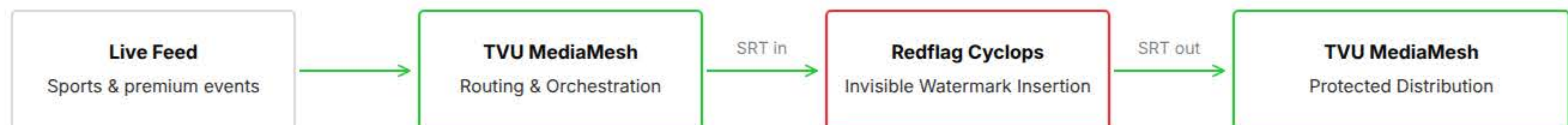
Move from finding an unauthorized stream to identifying its source and taking action — while the event's audience and revenue are at stake.

Fits Existing Workflows

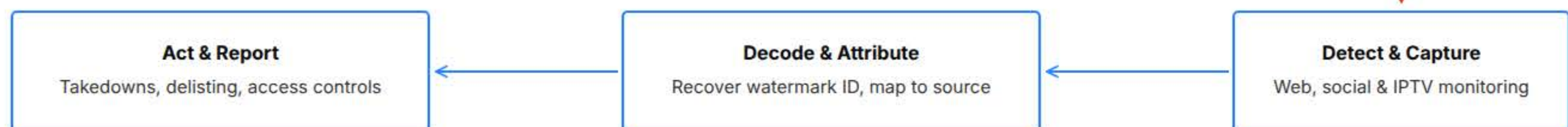
Cyclops integrates as a container within TVU MediaMesh and connects with customers' delivery and access systems — protection without re-architecting.

ARCHITECTURE OVERVIEW

LIVE MEDIA PATH



PIRACY RESPONSE



If leaked
↓

Initial scope: one live stream and one watermarked SRT output. A shared output identifies the protected feed; distributor or viewer attribution requires distinct IDs.

Fig. 1 — Cyclops by Redflag AI + TVU MediaMesh integration. A live feed is watermarked in the Cyclops container via SRT and distributed onward; if leaked, Redflag monitoring detects the restream, decodes the watermark, and supports enforcement.