

#### **MovieLabs**

**Innovation Engine for the Media** and **Entertainment Industry** 



#### Who

Motion Picture Laboratories, Inc. ("MovieLabs") is a non-profit 501(c)(6) studio-only technology R&D joint venture of the major motion picture studios.

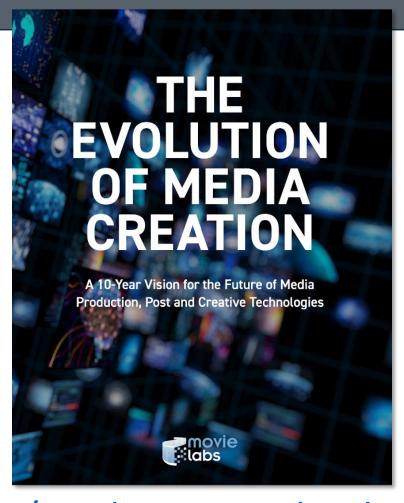
#### What

MovieLabs drives innovative solutions to industry challenges shared by both our member studios and the broader ecosystem. Beyond just movies – MovieLabs delivers efficiency for all motion picture and television content.

How

We architect next generation, interoperable production technologies, streamline/ automate distribution supply chains, enable new consumer experiences and secure the assets that are the capital of our industry.

# The 2030 Vision



www.movielabs.com/production-technology/the-2030-vision/

# CSAP COMMON SECURITY ARCHITECTURE for PRODUCTION



CSAP is a workflowdriven zero-trust security architecture for securing media production in the cloud

# Workflows are changing

#### **Facility-based production**

- Private on-premises infrastructure in each facility
- Data moves to the application
- Data moves between facilities
- Manual and scripted workflows
- Static security provisioned by sys admins

#### **Production in the Cloud**

- Shared cloud infrastructure
- Application moves to the data
- Data does not move\*
- Automated workflows
- Dynamic security provisioned directly by workflow management

# Why is CSAP needed?

**Production** is migrating to a cloud infrastructure shared by everyone working on a production: the studio, the production, vendors and individuals

#### Workflow centric security

→ Secure the workflow, not the infrastructure

#### Burden-free security

→ Security must not get in the way of the creative process

#### Perimeterless security

- → We are not connecting people to the network, people are connecting to brokers and web services.
- → No longer possible to always identify a network perimeter to defend.

# Secure the Workflow, Not the Infrastructure For example, encryption

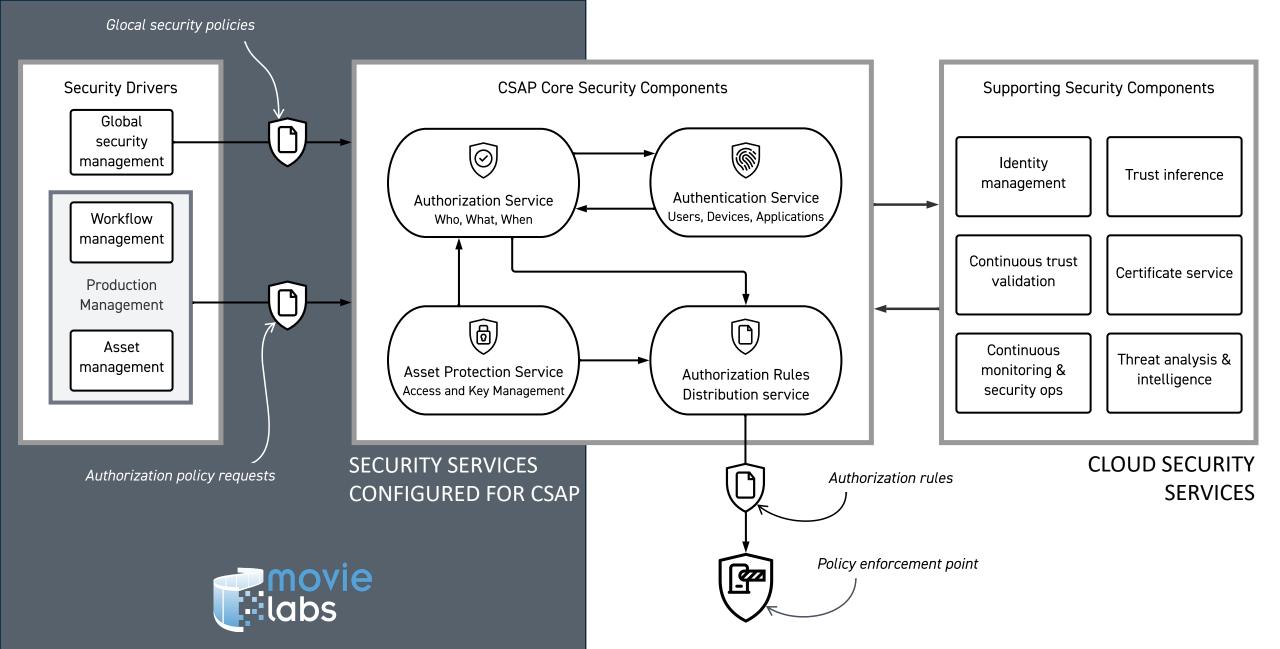
#### **Encryption at Rest**

- Encryption is protecting the piece of infrastructure where the data is stored
- Must prevent intruders getting access to the infrastructure

Consider: What is the threat that couldn't be mitigated just as well with access controls?

#### **Asset Encryption**

- Encrypting individual assets or sets of assets
  - Assets are protected even on untrusted infrastructure
- Protect the keys
  - Asset files can be managed (or stolen!) but only opened by those authorized to do so
  - Granularity of security depends only on granularity of encryption



https://movielabs.com/production-technology/production-security/

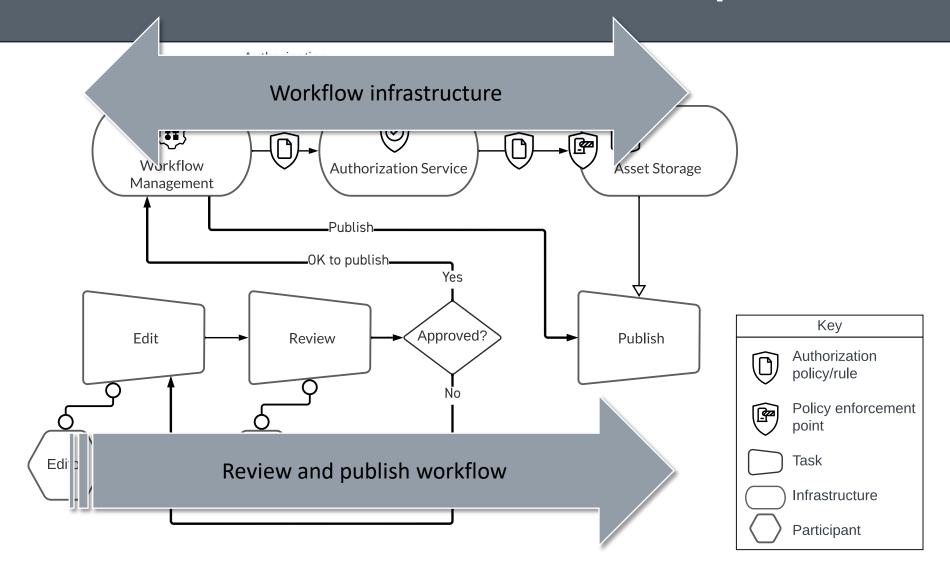
#### Software-Defined Workflows

A software-defined workflow uses a highly configurable set of tools and processes to support creative tasks by connecting them through software-mediated collaboration and automation.

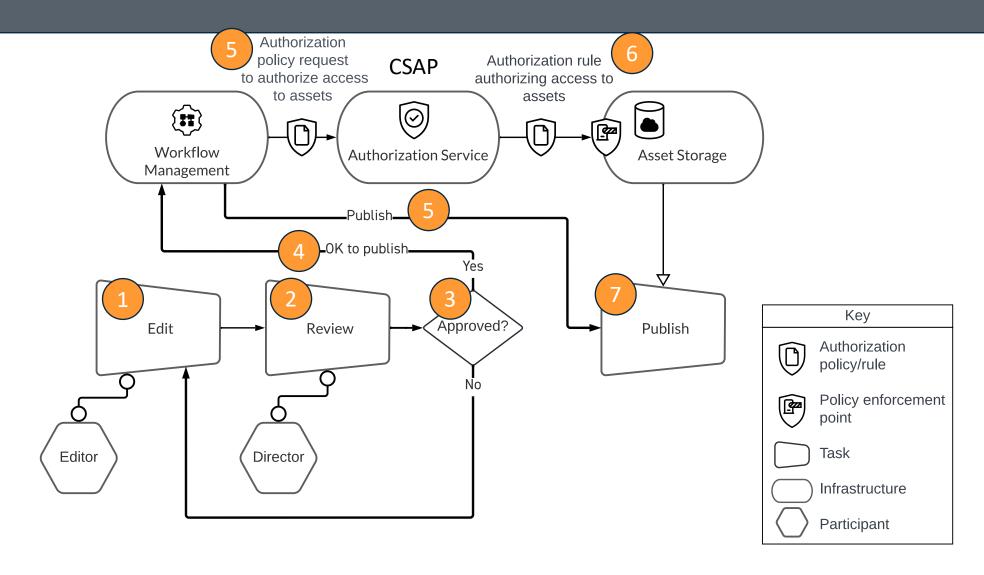


- All activity is denied by default
- CSAP permits authorized activity
- Authorization starts with workflow management

# Software Defined Workflow Example



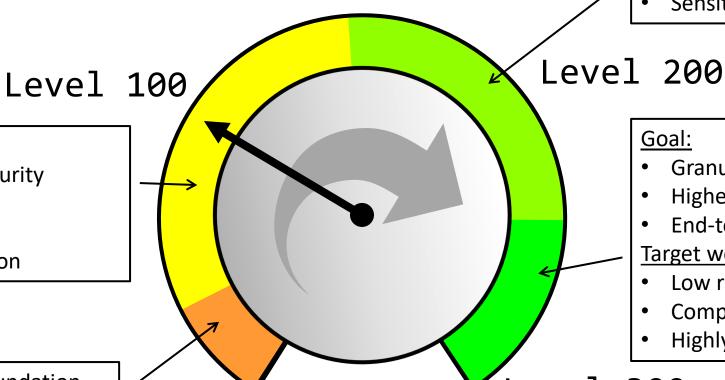
# Software Defined Workflow Example



# **CSAP Security Dial:** Functionality and Capabilities

#### Goal:

- Finer security control
- More security improvement Target workflows:
- Distributed
- Sensitive content



#### Goal:

- Workflow driven security
- Improved security

#### Target workflows:

Majority of production

#### Goal:

- Granular security control
- Highest security level
- End-to-end encryption capable

#### Target workflows:

- Low risk tolerance
- Complex and distributed
- Highly sensitive content

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#### Zero-trust foundation

Transition to CSAP

### **CSAP Specifications Published**

Part 1: Architecture

Part 2: Interfaces

Part 3: Security Levels

Part 4: Software-defined Workflows

Part 5: Implementation Considerations

Part 5A: Starting Out

Part 5B: CSAP Core

Part 5C: Approaches

https://movielabs.com/production-technology/production-security/



# For the full set of CSAP specifications:

Go to www.movielabs.com and follow link under Production tab