IPP Enterprise Printing Extensions v2.0: Feature Compatibility Investigation

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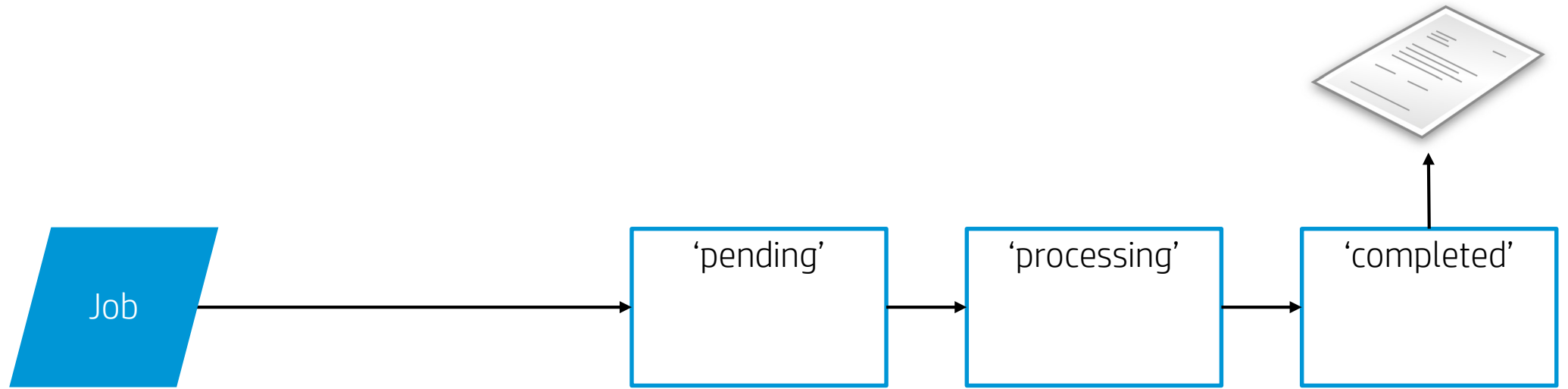
Feature Compatibility

- IPP Enterprise Printing Extensions v2.0 defines several "conceptual features"
  - Job Release
  - Job Storage
  - Proof Print

- These conceptual features each affect how a Job becomes a candidate for processing and what happens to that Job when its processing is finished.

- Interoperability between these features needs to be considered carefully to ensure their orthogonality to one another
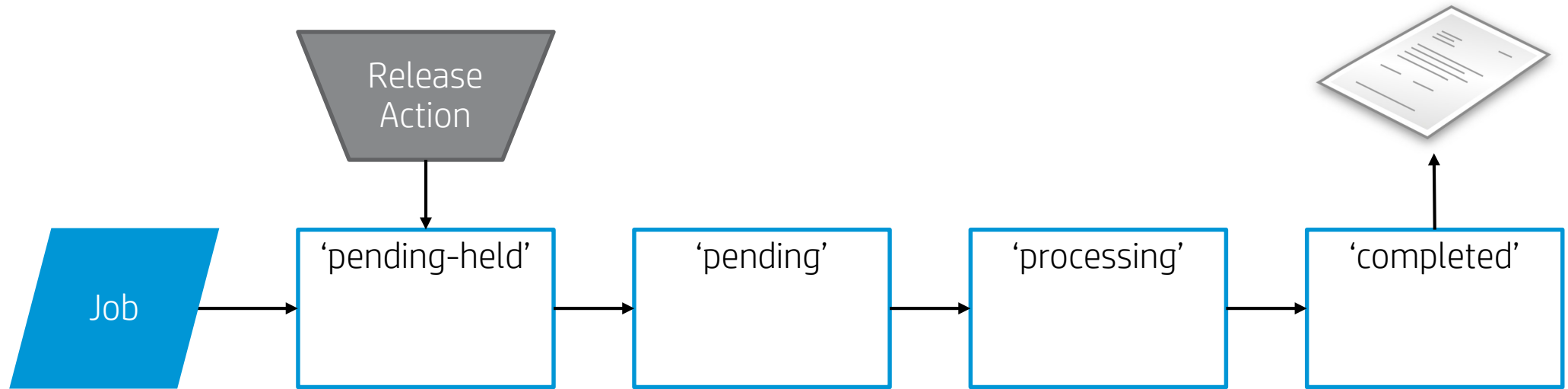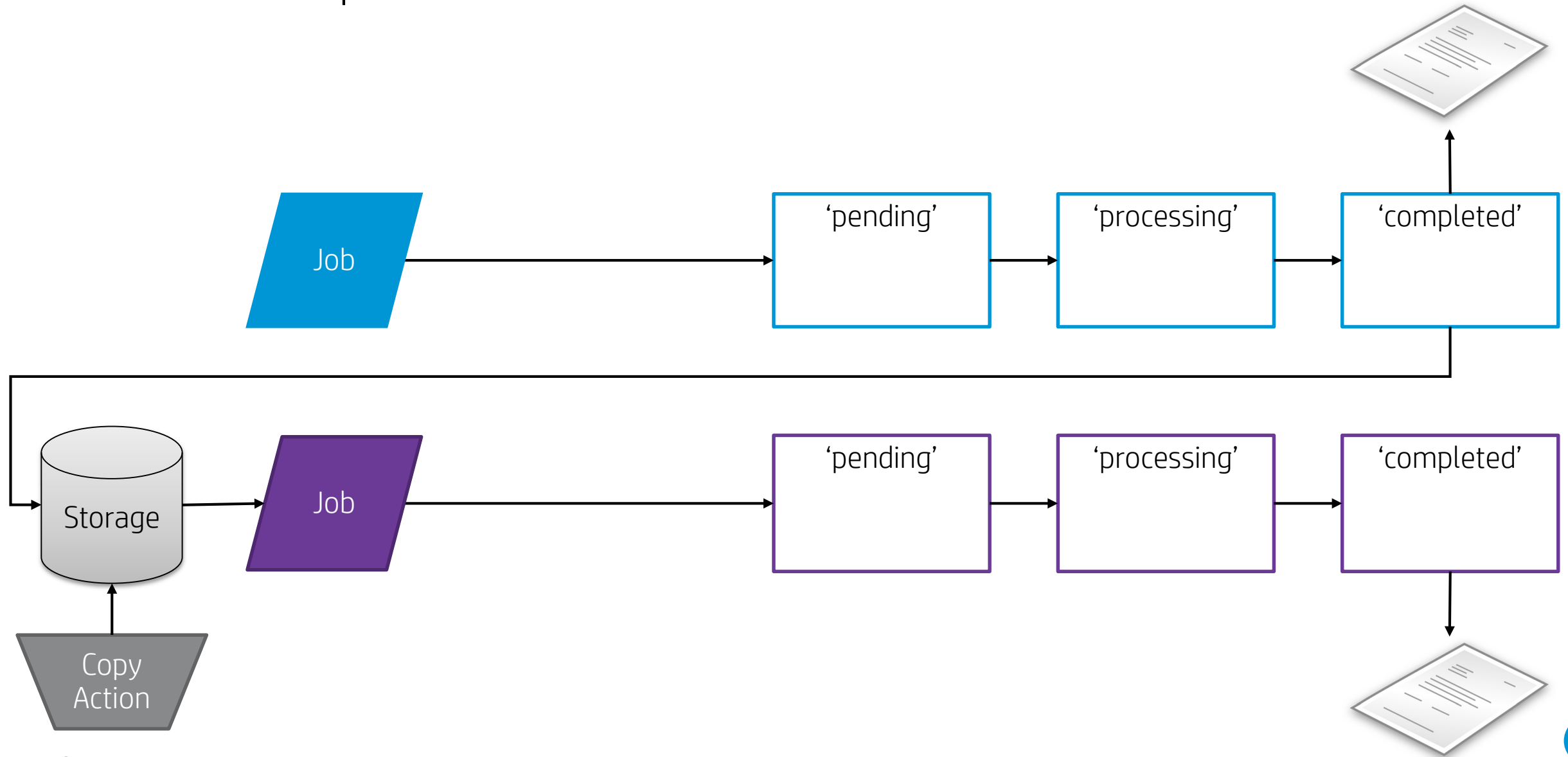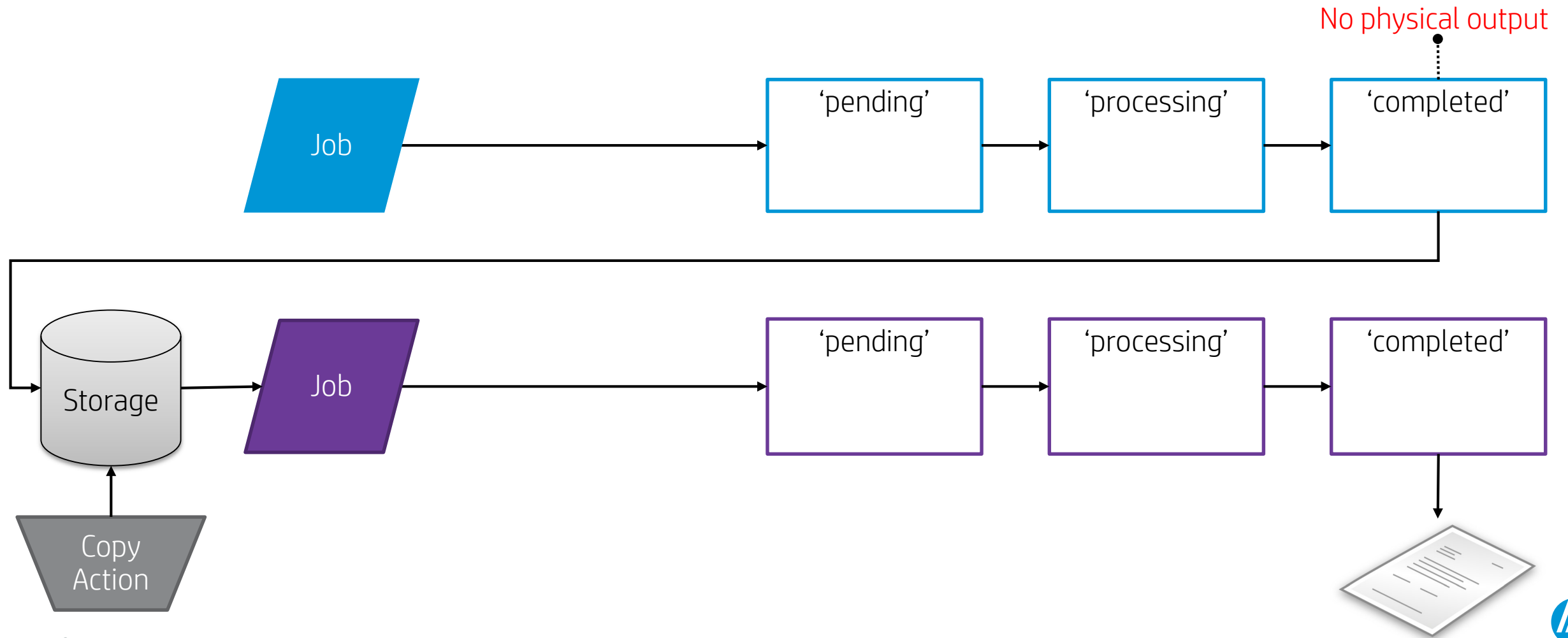
Simple Jobs

Basic Job

| Job | → | 'pending' | → | 'processing' | → | 'completed' |

Release Jobs

Release Job

Stored Jobs

Stored Job – 'print-and-store'

Stored Job – 'store-only'

No physical output

Job → 'pending' → 'processing' → 'completed'

Storage → Job → 'pending' → 'processing' → 'completed'

Copy Action

Proof Print Jobs

Proof Print Job

Job → 'pending' → 'processing' → 'completed'

Retained Jobs → Job → 'pending' → 'processing' → 'completed'

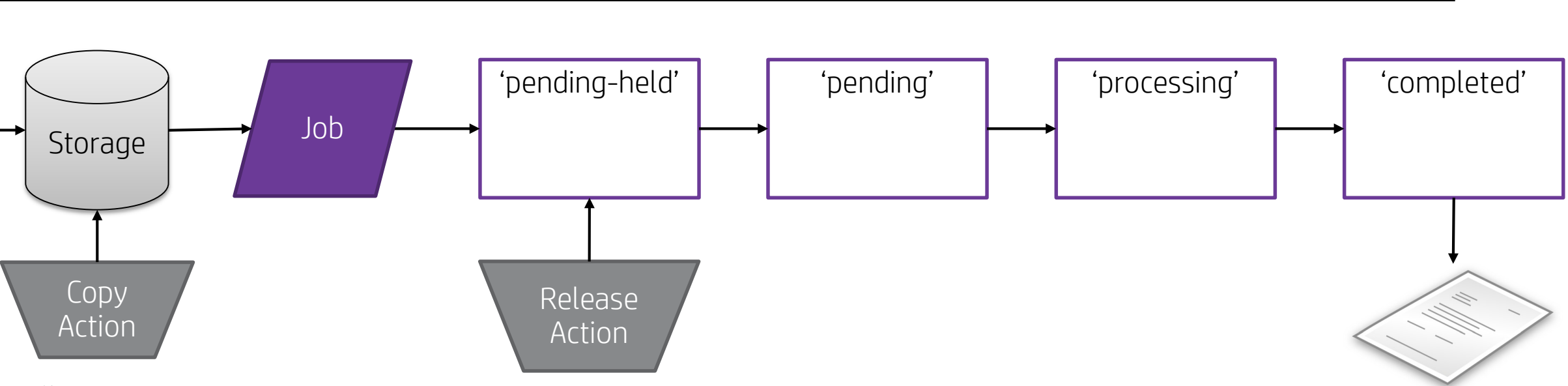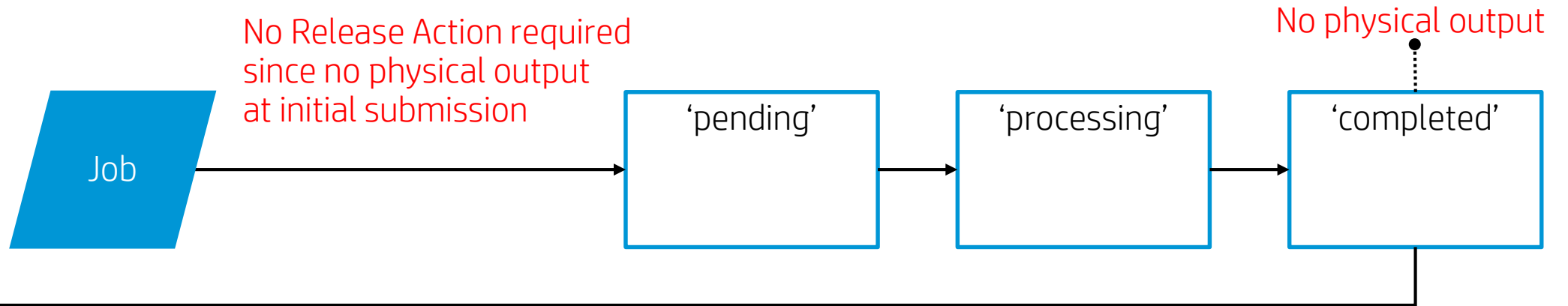Resubmit-Job
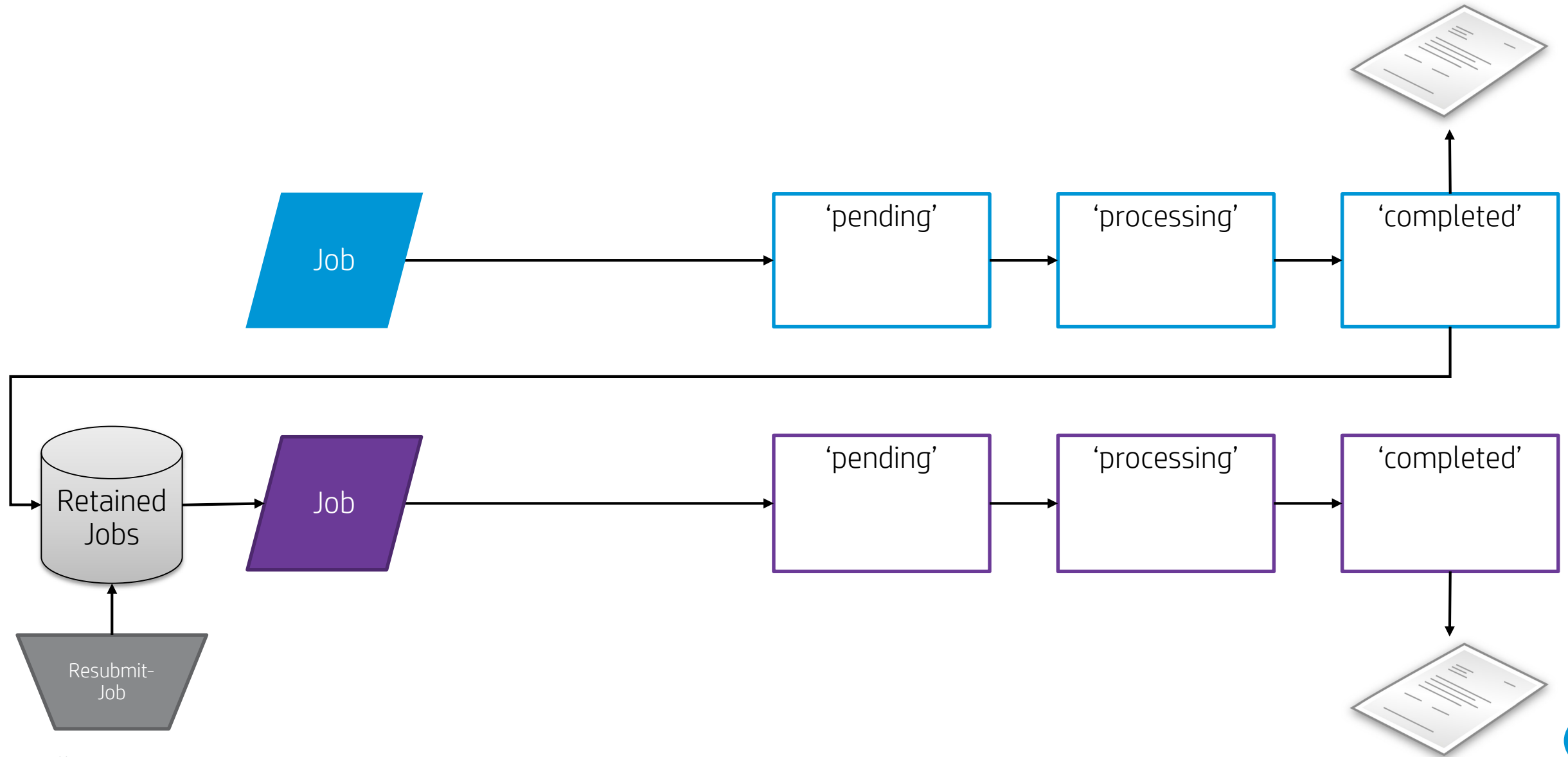
Complex Jobs Using Multiple Features

Release Job / Stored Job – 'print-and-store'

Release Job / Stored Job – 'store-only'

No Release Action required since no physical output at initial submission

No physical output

| Job | → | 'pending' | → | 'processing' | → | 'completed' |

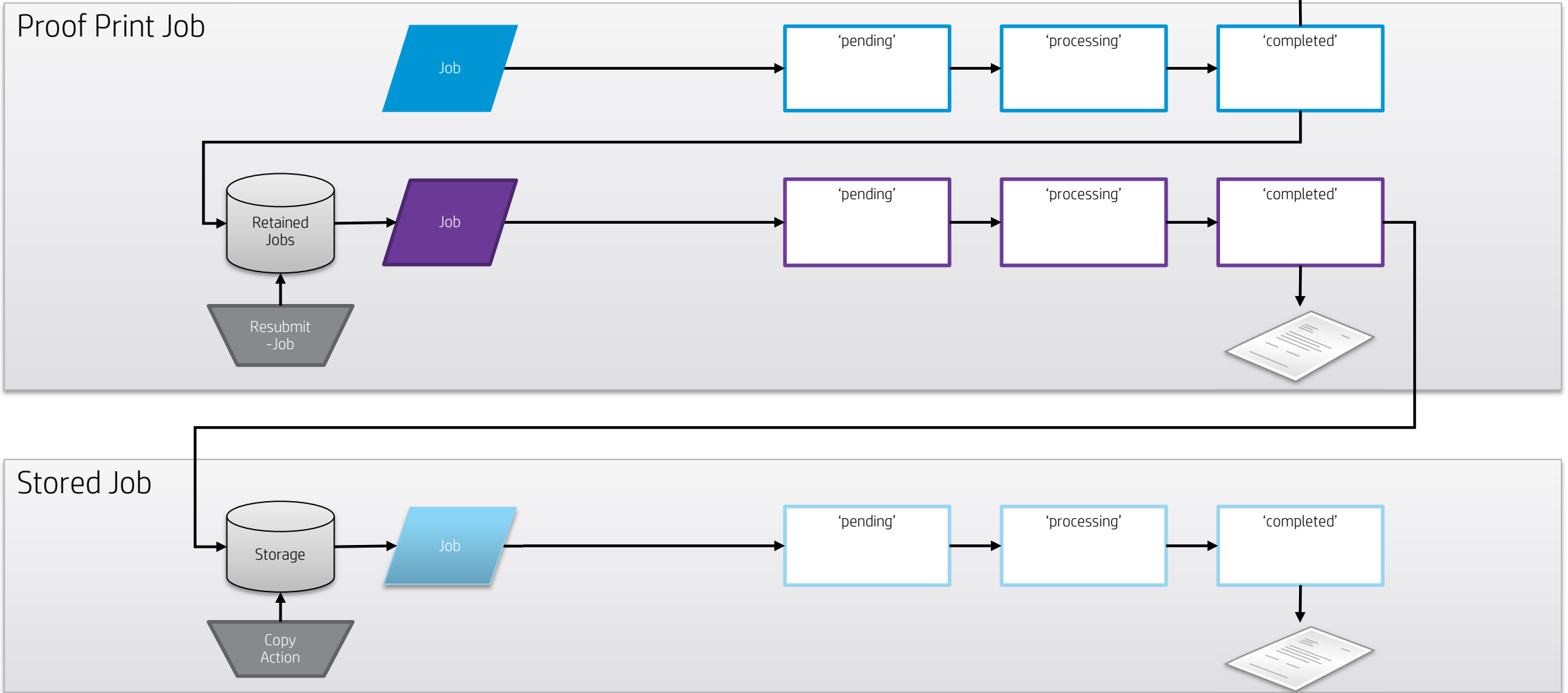| Storage | → | Job | → | 'pending-held' | → | 'pending' | → | 'processing' | → | 'completed' |

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Release Action
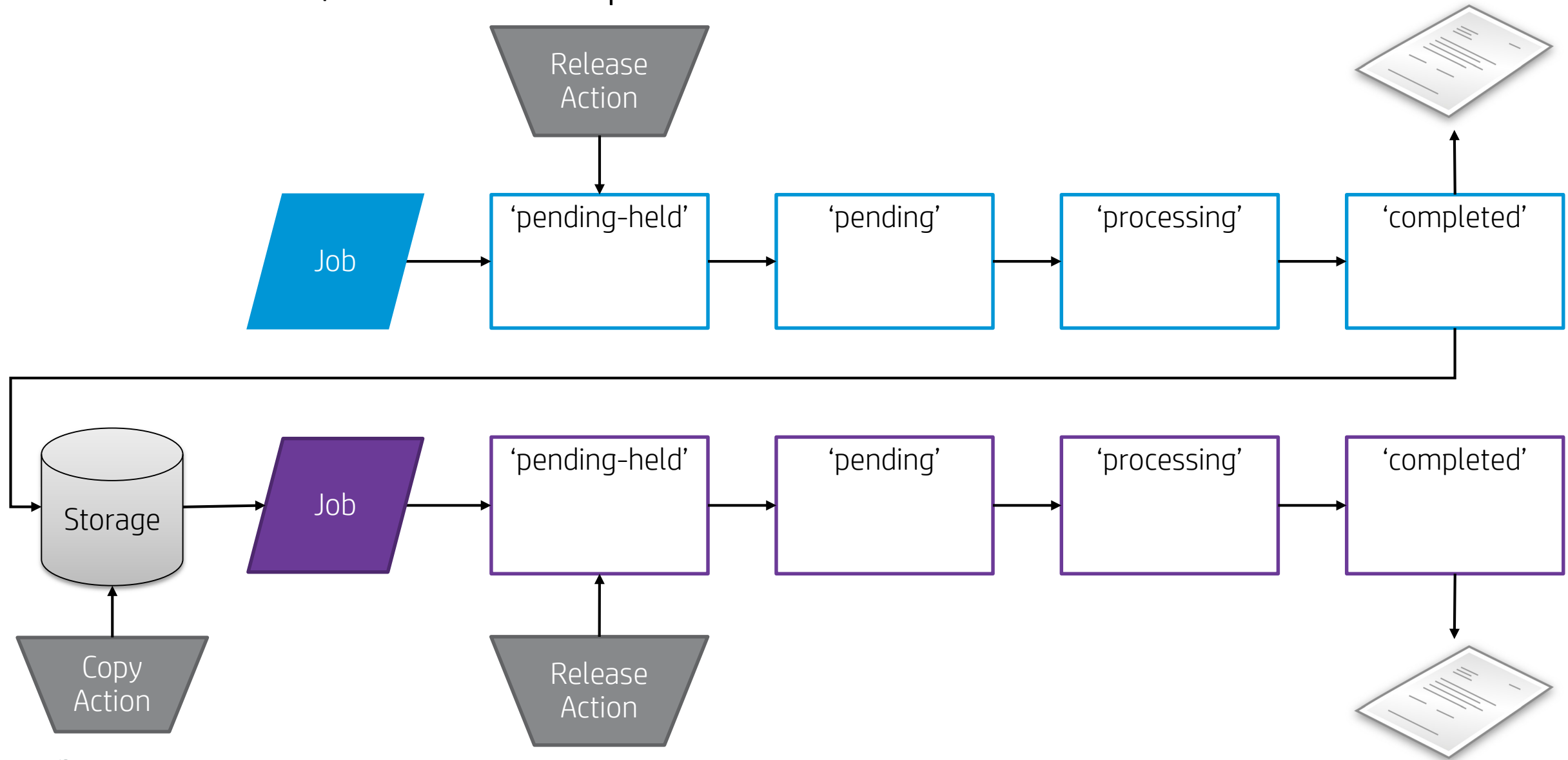
Release Job / Proof Print Job
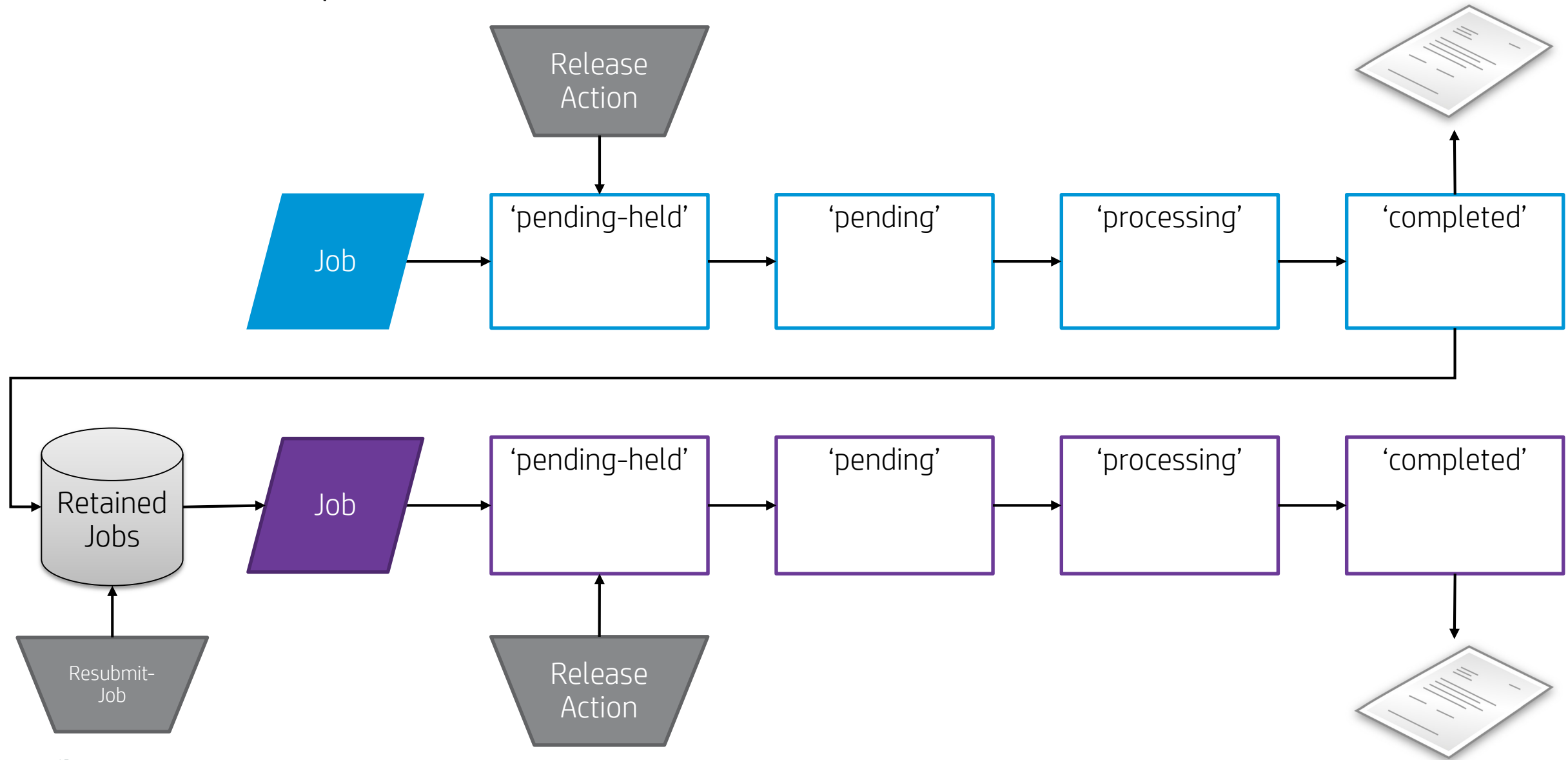
Proof Print Job / Stored Job 'print-and-store'

The 'store-only' option is incompatible with "proof-print"

Proof Print Job

| | Job | | 'pending' | 'processing' | 'completed' |

| Retained Jobs | Job | | 'pending' | 'processing' | 'completed' |

Resubmit -Job

Stored Job

| Storage | Job | | 'pending' | 'processing' | 'completed' |

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Logical Devices and Physical Devices

Release Job with Logical Device and Physical Device
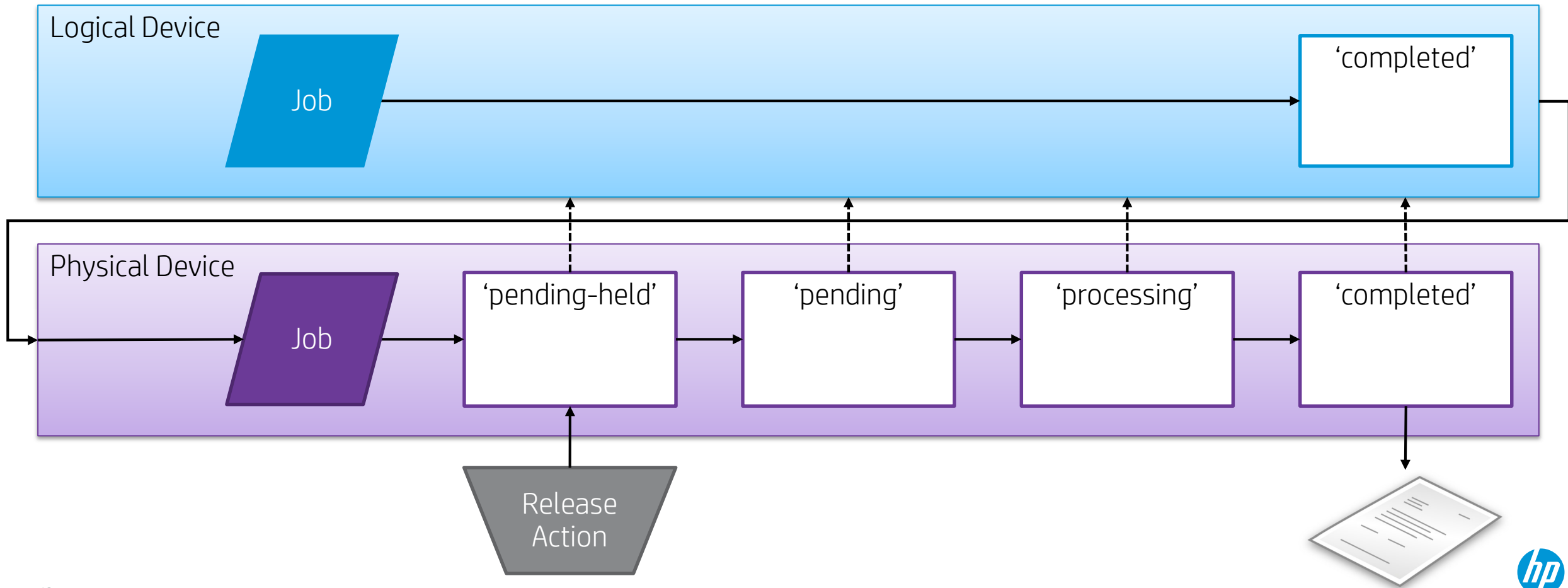
Release Job with Infrastructure Printer and Proxy / Physical Device

Doesn't really make sense to do this

Infrastructure Printer

Job → 'pending' → 'processing' → 'completed'

Proxy / Physical Device

Job → 'pending-held' → 'pending' → 'processing' → 'completed'

Release Action

Release here?