

# COMMA Workflow

When working with component-based media assets like DCP or IMF packages, existing workflows are quickly overwhelmed by the complexity of managing XML files and bulk assets.

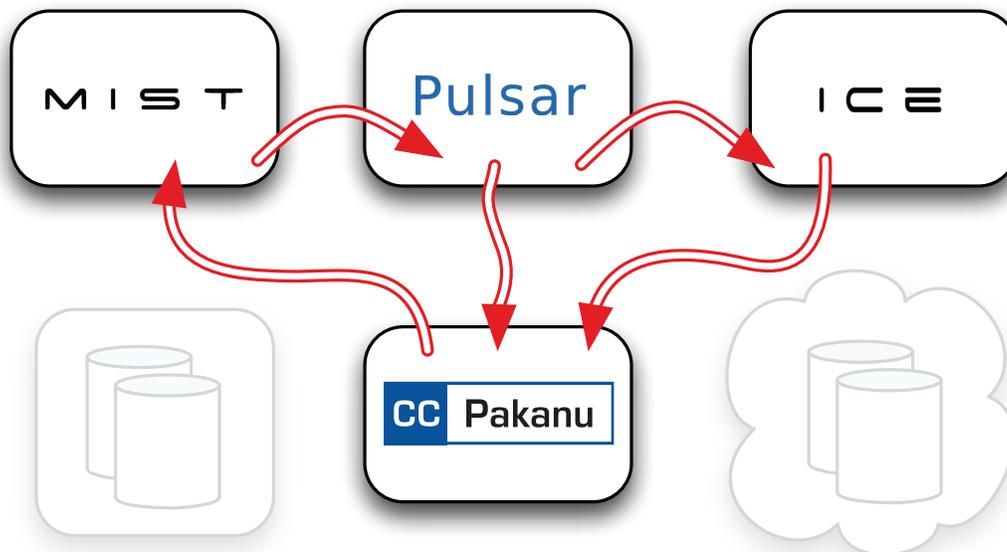
To address that complexity, CineCert, Marquise Technologies and Venera Technologies have collaborated to offer the ready-to-use seamless integration of a media asset management solution (Pakanu) with a mastering (MIST) & QC player (ICE) system and an automated file based QC solution (Pulsar).

The COMMA (COMponentized Media Asset) Workflow is the common name for this integrated environment of solutions that natively understand DCP and IMF packages and can provide an intuitive and easy to use workflow to author, QC, and manage these complex structures.

CineCert



MARQUISE TECHNOLOGIES



## Versioning & QC made easier

- Pakanu's component-based asset management capabilities are used by Pulsar for the QC process of multi-CPL packages
- Direct access to the content versions (CPLs) available from MIST and ICE user interface using tags, avoids tedious browsing through the files system
- Pulsar can QC for essence (Video/Audio) artifacts and report areas of interest for a further manual investigation using ICE Player or MIST.
- MIST and ICE can look through Pakanu to find the content that need to go through manual QC and load the Pulsar report to navigate directly to the areas of interest.
- Using Pakanu's APIs and standards-based file formats, MIST and Pulsar can interoperate in a workflow, sharing not just data but also workflow state.



# COMMA, an alliance of state-of-the-art solutions

**Pakanu** combines media asset management and automated processing in an integrated framework for componentized media production. Pakanu provides an extensible metadata model over media objects and associated application data such as delivery requirements, process output, and validation results.



Pakanu hosts an extensible set of automated process modules that may be scheduled to run in reaction to state changes in workflow assets. Operator-driven activities such as editing may deposit new assets and delegate long-running tasks to automation, freeing the operator to continue to the next task.

Pakanu can perform automated ingest, validation, MXF wrapping, and IMF and DCP packaging. In addition, any API-controlled remote process can be initiated and monitored by a Pakanu process module. Operator-driven activities can be directed to pre-qualified assets at the beginning of the session, reducing wait time and false starts.

**Pulsar** is the world's fastest File based Automated QC system that is used by some of the largest Media companies, as well as a number of smaller boutique post houses and production companies. Pulsar's fast performance, ease of use, and competitive pricing, results in the best ROI for a QC system. Pulsar provides a very rich range of features and detection parameters.

## Pulsar

Aside from support for all common video/audio formats in SD, HD and 4K resolutions, Pulsar supports many advanced capabilities such as support for validation and analysis of HDR, Adaptive bit rate content (HLS, DASH, and Smooth Streaming), Photo Sensitive Epilepsy (PSE), and IMF and DCP packages.

Pulsar also includes 'ready to use' QC templates for some of the more popular platforms such as Netflix, iTunes, CableLabs, and DPP which can allow running QC jobs right out of the box.

**MIST** is a high-end mastering system offering in one unique solution unrivalled features for the creation of any type of masters, including DCP, IMF, AS-11, AS 10, MXF ProRes, iTunes packages. This timeline based powerful solution enables multiple processing on the content: HDR conversions, conforming, color grading, editing & subtitles management.

## MIST

MIST is a certified Netflix Post Technology Alliance product and Dolby Vision certified for Editorial & QC.

## ICE

**ICE**, a reference player for the QC of high-end masters, offers the widest range of native format support in a player. Designed for the business of QC, ICE provides numerous tools to monitor image, audio, and subtitles, compare versions, check the compliancy with the standards and export the results.



See COMMA partners at NAB 2019



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