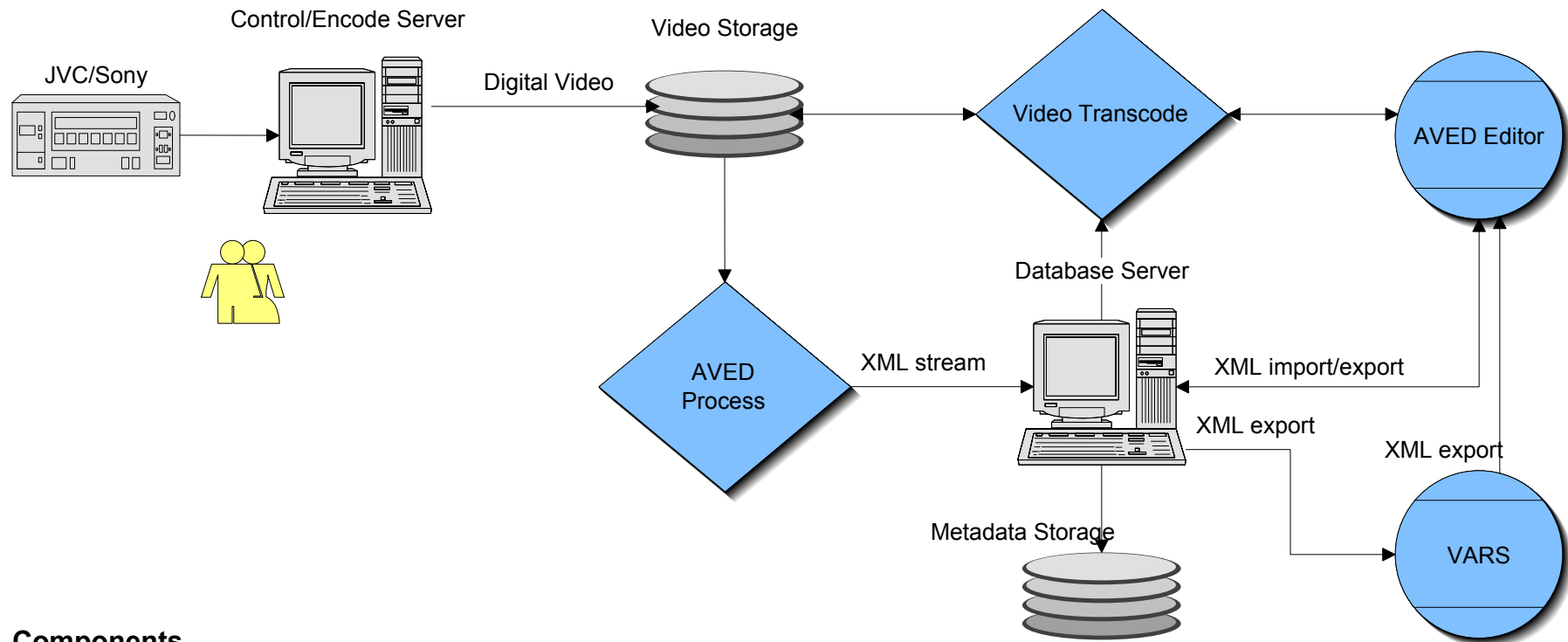


AVED-VARS Workflow



Components

Control/Encode Server - Single point for AVED process control. Provides RS422 VCR control to JVC/Sony, interface for AVED process control, and AVED Editor runs here.

Video Storage - RAID storage for still frames generated from digital video (master), or archived Quicktime or MPEG clips.

AVED Process - Frame based Automated Video Event Detection process that outputs AVED XML metadata for ingest into Database Server.

Video Transcode - Transcodes from digital master to another format and/or resolution, e.g.

(1) Transcode master to high resolution clip using AVED key frames, e.g. generate keyframe for every new event.

This could be used to create intelligent fast forward to AVED events for general preview/edit.

(2) Transcode master to high resolution event-centered clips. This could be used to identify animals in isolation, or in conjunction with item (1) for preview/e

(3) Transcode master to high resolution event-frames for classification/identification research.

(4) Transcode master to high quality MPEG-2 compressed video to send to another person or process.

(5) Transcode master to low resolution streamable format for preview over web.

AVED Editor - Graphical editor to modify AVED results or compare against VARS annotations. Revised results are then imported into Database Server.

Database Server - Dedicated server for AVED database transactions.

Metadata Storage - RAID storage for AVED metadata.

VARS - MBARI Video Annotation and Reference System