

SAT AI (AutoIngest)

NL Technology introduces the first automated clip based MXF ingest for (Ikegami FieldPak, Panasonic P2 and Sony XDCAM) digital media into an Avid workgroup. Moving media captured on non-linear devices to network storage can be a time-consuming task requiring an editing station to consolidate the media files to a workspace, but with SAT AI there is no editor required. SAT AI can automatically detect inserted acquisition media and immediately copy the media with metadata to the Avid workgroup storage system. SAT AI is compatible with both Avid Workgroup 4 (MediaManager) and Avid Workgroup 5, the Avid Interplay workflow engine. SAT AI displays video clips with head frames (for acquisition equipment that provides thumbnails). SAT AI is easily configured to be completely hands free or allow human intervention. In the manual mode, SAT AI reads and displays all metadata provided by the manufacturer, including all MXF and XML extraneous data and good shot locators, in an editable interface. All metadata read or entered by the user is available in the Avid Bins. AI has a rapid data entry mode that allows the user to annotate many clips at once, including automatic numbering. AI provides a fast and easy way to rename one or all clips, including the option to append a sequence number on the fly, this make locating clips faster in the workflow downstream. SAT AI combines more metadata capability with less expensive ingest (not tying up an edit suite), that gives you, more for less, faster workflow.



SAT AI an efficient field use workflow:

SAT AI is used to quickly “unload” acquisition media to a local hard drive, and return the media to the field for further recording, or store it away as an archive. The now local media can be annotated with metadata and transferred into the Avid workgroup at a later time more quickly because the local media is completely Avid compliant. This Field model allows the user to transfer only the clips necessary as it retains all video material until the user decides to archive, transfer or remove it from the system.

SAT-AI a Facility Ingest Station workflow:

SAT AI is used to quickly “upload” acquisition media to the Avid Unity and MediaManger/Interplay environment without tying up an edit suite. A photographer can simply plug their acquisition media into a device connected to a computer that is running the SAT-AI software and all of the clips can be seamlessly ingested. Every clip is logged in a file and a printable paper trail can easily be generated. SAT AI is a multi-tasking application and will process clips from the ingest device and transfer to Unity at the same time. Users on the Avid network can use the clips as they checked-in to the MediaManger/Interplay.

SAT AI clip based acquisition archive (available 2008)

SAT-AI will provide a cost effective DLTape archive option for field or small facilities. The archive option will allow the user to continue to work in the field while creating a reliable tape archive of Avid compliant media ready for ingest. The DLTape can be used as an input device for SAT-AI. Clips can be checked in to the Avid workgroup with the media (offline) and if and when needed, the content can be re-ingested directly from the DLTape.

SAT AI supported types of non linear media for ingest;

- Ikegami FieldPaks
- Panasonic P2
- Sony XDCAM
- Others:
 - DLTape
 - Hard drive (SAT-AI Mobile)

Avid Supported Applications

- Avid InterPlay™
- Avid MediaManager™
- Media Composer®
- NewsCutter®
- Symphony Nitris®
- Avid Nearchive™
- Avid Unity™

Operational Requirements

- Avid TransferManager DONGLE
- Avid Software installation kit for TransferManager.
- A Working Avid Unity or ISIS and TransferManager Server for Workgroup 4 or 5.
- Avid Workgroup 4 Haystack 11 or greater
or Avid Workgroup 5 Interplay 1.1 or greater

Minimum Recommended System Requirements:

- Windows XP, SP2
- CPU 2 GHz or greater
- 1 GB Ram
- 25GB of free space (this is user dependant – maybe 250GB to 2TB or more)
- Recommended Screen Resolution 1024x768 or larger
- For USB ingest devices: available USB 2.0 port
- For 1394 ingest devices: a 1394 available port
- For PCMCIA devices, available slot and manufactures drivers loaded
- Ethernet connectivity to the Avid TransferManager Server
(100Mbps minimum requested, 1 Gbps preferred)

For Panasonic P2 users, the SAT AI advantages are:

- Unload P2 media in the field and return the cards to the camera man ASAP
- Transfer all of the metadata (MXF and XML) with your clips to Avid Unity
- Quickly assign useful clip names with AI “Batch Edit” function
- Use DLT Archive (available 2008) to keep a duplicate of all material shot, don’t lose anything
- Select some or all clips for Ingest, by review thumbnails and metadata

For Ikegami Editcam users the SAT AI advantages are:

- Transfer all of the metadata (MXF and BIN) with your clips to Avid Unity
- Use DLT Archive (available 2008) to keep a duplicate of all material shot, don’t lose anything
- Transfer SAT AI Local content up to six times faster than real time to your Avid Unity
- Quickly assign useful clip names with AI “Batch Edit” function

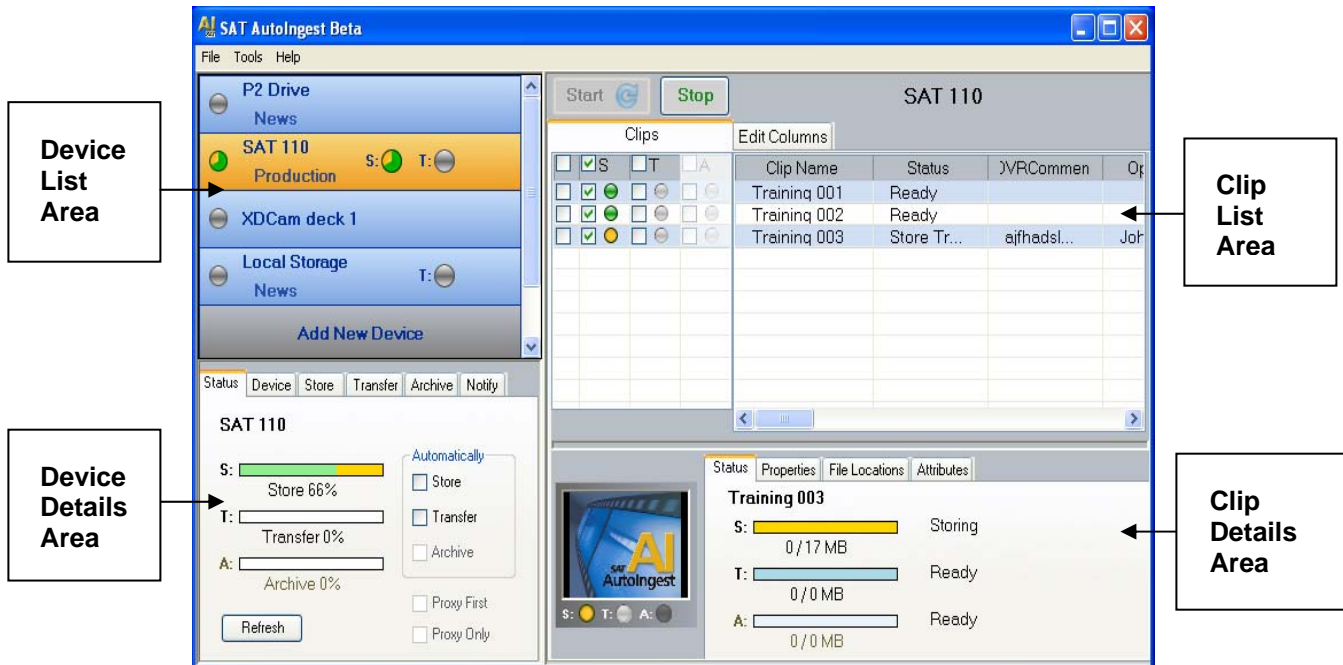
For Sony XDCAM users the SAT AI advantages are:

- Accelerate the ingest process by moving the ingest of XDCAM material out of the edit suite, to any PC
- Further increase productivity by ingesting to local storage device before the footage arrives at the facility, with SAT AI Mobile
- Transfer SAT AI Local content faster than real time to your Avid Unity
- Select some or all clips for Ingest, by reviewing thumbnails and metadata
- Quickly assign useful clip names with AI “Batch Edit” function

Overview of SAT-AI application:

The SAT AutoIngest is divided into the four areas:

- Device List Area
- Device Details Area
- Clip List Area
- Clip Detail Area (which includes a clip thumbnail view)



The Device List Area

This area displays the overall status of all of the devices defined in SAT-AI. The status bullets allow the user to see the activity of AI as it performs the Ingest.

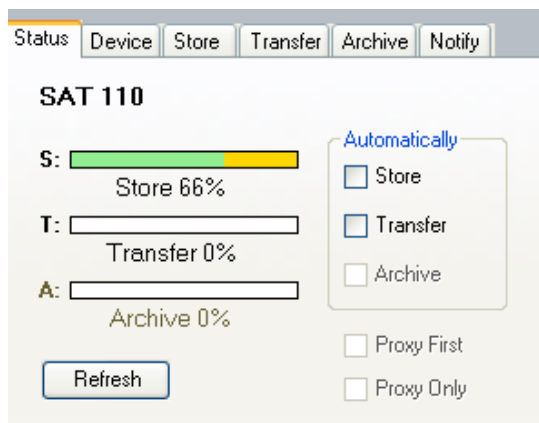
The silver bullets to the right of the device name show the device status (active/attached/none in use).

The gold shading indicate the current user selected ingest device. When selected, all other areas of SAT-AI display specific information about the selected ingest device.



SAT AI Device Detail Area

The Status Tab displays progress bars of the device activity when active. This area provides the user the option to change from auto mode to manual mode by selecting a check box and refresh the Clip List Area by reading the MXF, XML and head frame data from the Ingest device.



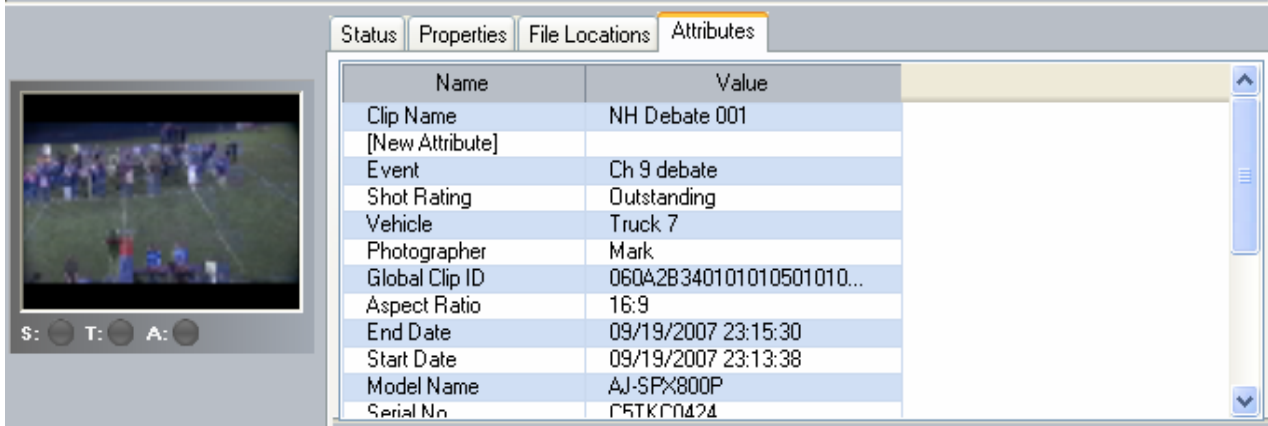
SAT AI Clip List Area

This area displays all clip information MXF, XML from the acquisition media as well as any and user modified or added data.



SAT AI Clip Details Area

Displays the head frame, and four tabs of information, including current status properties, file location and attributes. The attributes are fields that can be changed in this screen



Name	Value
Clip Name	NH Debate 001
[New Attribute]	
Event	Ch 9 debate
Shot Rating	Outstanding
Vehicle	Truck 7
Photographer	Mark
Global Clip ID	060A2B340101010501010...
Aspect Ratio	16:9
End Date	09/19/2007 23:15:30
Start Date	09/19/2007 23:13:38
Model Name	AJ-SPX800P
Serial No	C5TKC0424

What is SAT, Smart Acquisition Technology?

Smart Acquisition Technology (SAT™) is the "power" providing the capability to add and to organize media and metadata, at the start of recording, during digital recording, during ingest of non linear media or during nonlinear editing:

- Prior to acquisition, use the DNS, HDN-X10, or SAT video recorders, PakTools, Windows or Palm Pilot software to define metadata attributes.
- During acquisition, disk recorders store the custom attributes you enter about each clip, and automatically log specific recorder metadata for each clip.
- During Ingest, SAT AI adds descriptive metadata or combines external xml data to your Avid Projects
- During editing, benefit from SAT Technology to view clips with the attributes you assigned at acquisition, and view clips with metadata automatically assigned for you. NLT's SAT Technology enables you to track, sort, organize, and rename clips to your preferences.

Smart Acquisition Technology integrates the process of capturing, logging and organizing clips and data seamlessly for use in all digital nonlinear systems.

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