

Product Sheet

# MediaStore Coder

## File-based Transcoder Application Module

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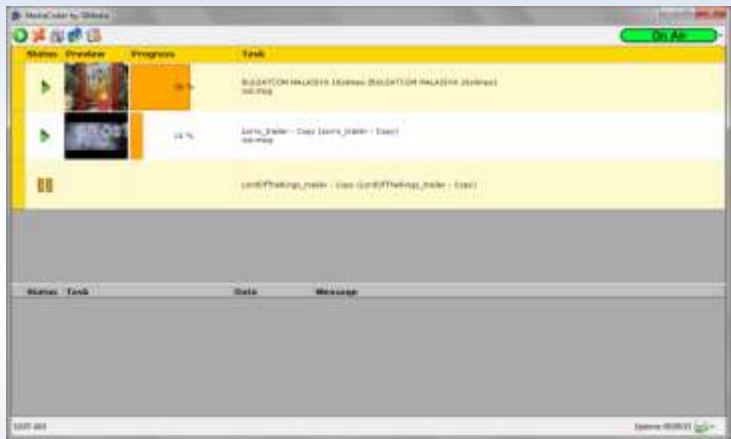
## MediaStore Coder

**MediaStore Coder** handles the video format conversions across *broadcast, editing, Web* and *mobile* environments. The system is scalable and can be adapted to the customer's workflow. Linking together several *transcoding* servers running **MediaStore Coder** is possible to set up a *transcoding farm*.

Thanks to the integration with other SI Media modules, **MediaStore Coder** is able to automatically process incoming transcoding requests, in order to automate the workflow.

### Key Features:

- **File based Transcoding**
- **Clear user interface**
- **Full automation**
- **Cooperation and Multithreading**
- **Multi-format platform**



### File based Transcoding

*Transcoding* includes all the operations involved in converting an audio/video content or its container from a format to another. Whenever an asset requires a conversion to conform its format it is necessary to transcode it using **MediaStore Coder**.

Besides transcoding assets during the import/export phase, **MediaStore Coder** can convert contents inside the archive for *normalization* purposes or to cut off unwanted clip, or to create a set of clips out of a unique file. This is particularly useful when an archived content is composed by heterogeneous clips. Despite the logical separation provided by the *Bookmarks*, many customers prefer to physically split files. This operation is called *consolidation* and it's performed by **MediaStore Coder**.

From **MediaStore** it is possible to define a *Basket* of assets (this is a common procedure in a *newsroom* environment). In these cases **MediaStore Coder** elaborates the *basket* and generates a new content of the required format.

Transcoding not only occurs during *import* and *export* tasks but also for generating *proxy*, for *consolidation* or integrated *editing*. These elaborations are performed by the integrated engine of **MediaStore Coder**, or optionally by external engine like Rozhet Carbon Coder or FlipFactory.

| Status | Preview   | Progress | Task  |
|--------|---|----------|---|
| ▶      |  | 27 %     | LordOfTheRings_trailer - Copy (LordOfTheRings_trailer - Copy) out.mpg |
| ▶      |  | 26 %     | zorro_trailer - Copy (zorro_trailer - Copy) out.mpg                   |

(Transcoding task progress in MediaStore Coder)

## Clear user interface

The user interface of **MediaStore Coder** is designed to be clear and effective. The main goal is to monitor the progress of the transcoding tasks. The operator can define tasks order and priority. A full set of user messages and warnings allows operators to know system status in detail. Warning and errors can be mailed to system administrator.



(Two running transcoding tasks and one waiting to start)

## Full automation

**MediaStore Coder** is demanded to process the automated *assets* transcoding requests by the MAM, whenever these are needed. This is possible thanks to the **MediaStore Coder** interaction with the MAM *workflow* rules. Once defined a suitable workflow, no human operation is needed.

## Cooperation and Multithreading

**MediaStore Coder** is a *Multi-threading* and *Cooperative* platform.

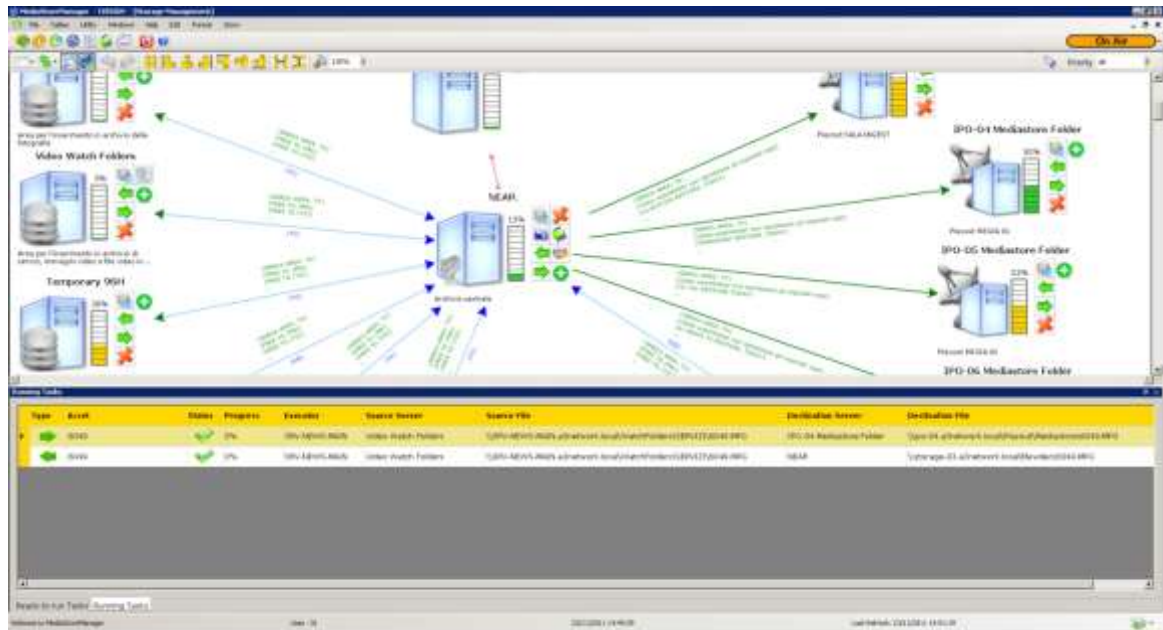
*Multi-threading* stands for multiple tasks executed simultaneously. For example the system can transcode several assets while deleting some other. This feature avoid performance bottleneck when multiple requests come to a server. The concurrent operations number can be tuned to the hardware performance or to other constraints.

*Cooperative* means that more than one server (*instance*) can run **MediaStore Coder**.

Multiple servers can be configured to execute the same kind of task (*Proxy* generation, transcoding, *Key Frames* generation, etc...). Usually *Proxy* generation and transcoding are handled by more than one server.

These **MediaStore Coder** instances will share the incoming requests in order to cut down execution time. This kind of *load balancing* increases reliability, providing a sort of *active/active backup*.

If one of the servers goes down, its tasks will be taken on charge by other running servers.



(MediaStore: main monitoring window with running tasks)

| Type | Asset                           | Status | Priority | Progress | Executor | Source Server | Destination Server |
|------|---------------------------------|--------|----------|----------|----------|---------------|--------------------|
|      | BULSATCOM MALAYSIA 16x9nev      |        | 2        | 64%      | STEFANOV |               |                    |
|      | progam_italy_2011-04-01_epis    |        | 20       | 50%      | STEFANOV | Near          | TV backup          |
|      | Copy (103) of Copy of Copy of t |        | 1        | 0%       | STEFANOV | TV backup     |                    |
|      | MultiAudio_V0                   |        | 3        |          | STEFANOV | Proxy         |                    |

(MediaStore: running processes)

## Multi-format platform

Below the list of the supported formats by **MediaStore Coder**.

| Supported Formats  |
|--|
| <b>Workflows</b>   |
| <b>SD, HD, Mixed workflows</b>   |
| <b>Video Codecs</b>  |
| <b>MPEG-1, MPEG-2, MPEG-4, IMX30/50<br/>H.263, H.264, VC-1, VC-3, Flash<br/>DV25, DV50, DV100, DVCPro<br/>DPS, DivX, JPEG 2000, AVCIntra<br/>Windows Media, RealVideo</b>                          |
| <b>Media Containers</b>  |
| <b>HDV, MOV<br/>MXF (including D-10/IMX, XDCAM, P2)<br/>MPEG-2 PS, MPEG-2 TS<br/>LXF, GXF, QuickTime (including Apple ProRes)<br/>WMV, ASF, AVI, VOB<br/>3GPP, 3G2<br/>WMA, WAV, Broadcast WAV</b> |
| <b>Audio Codecs</b>  |
| <b>PCM, MPEG-1 Layer II, MP3<br/>AAC, WM Audio, RealAudio<br/>Dolby Digital, Dolby Digital Plus Systems</b>  |