



The Digital Media Packet

NETmc Marine Ltd are leading suppliers and manufacturers of digital media acquisition solutions, pioneering digital video recording systems for the offshore Oil & Gas industry. Originating from the broadcast media industry, their proven digital video recording solutions have been operational 24/7, 365 day per year with high reliability and low maintenance and have now been tailored to meet the needs of the offshore industry. NETmc Marine provide a complete service from design to production for "off-the-shelf" systems, or help clients to design their own digital video solution, by supplying advice, components or sub-systems.

NETmc Marine have adopted the use of the "Digital Media Packet"[™] to enable a modular, flexible and scalable digital video system that does not add to the ever increasing data management task. The packet format encapsulates multi-channel digital video and audio along with additional telemetry and third party data streams into a singular file format. Packet files can be easily and quickly edited, recorded and distributed without consideration for the number of data elements that they encapsulate.

The Packet format is not tied to any specific video encoding format and supports pre-defined types such as MPEG1, MPEG2 and MPEG4 as well as other proprietary standards such as REAL Video, QuickTime, and Windows Video. This approach ensures future compatibility as well as maintaining integrity with existing archives. System Integrators and Users no longer have to consider the specific video encoding format when using the Packet, other than considering if the encoded format suites their specific needs in terms of image resolution, archiving, format stability and Operating System independence.

The Packet is also a transparent and an open format thus enabling third party viewers (for example Windows Media Player) to replay and manipulate the video without restrictions, either technically or commercially.

The Digital Media Packet

Features

- Encapsulates multi channel digital video and telemetry into a singular file.
- Independent of the video format (e.g. MPEG1, 2, 4) used during recording.
- Synchronisation of multi-channel video and telemetry at point of data capture.
- Reduced data management –a single file containing all video & telemetry to manage
- Ease of integration within own applications - ideal for the OEM or integrator
- Instantaneous non-linear editing and merging capabilities (conventional editing tools are slow).
- Simultaneous editing of all video and telemetry channels – a seamless process. (This would not be the case if the video is stored in the conventional manner)
- Update telemetry data during post-processing with the latest navigation information.
- A host of editing and review software available which fully supports the Packet.
- OEM toolkit available for inhouse developments.

Benefits

- **Reduced data management**, by as much as 400%
- **Improved video integrity and security** – multi channel video is synchronised and through the embedded telemetry traceable to the location at which it was recorded.
- **Reduced post-processing cost** - rapid editing and manipulation of the multi-channel video.
- **Simple to manage, simple to visualize.**

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