

IP Catalog

NeST Multimedia Framework

Product Summary

Company Info	Network Systems & Technologies (NeST)
Product Type	Middleware
Component	Multimedia Framework
Application(s)	Multimedia Applications
Market	Consumer Electronics
CPU / DSP supported	x86, ARMv5TE (ARM926EJ-S)
Product Info	Framework (library and API spec) for rapid multimedia application development.

Description

NeST's Multimedia Framework (MMF) is a software library with an API specification. It enables multimedia software components to be easily developed and integrated with other MMF compatible components so that tangible multimedia solutions can be easily developed and demonstrated. The multimedia functions of these components can be audio/video encoding, storage, streaming, decoding and playback.

The MMF architecture provides the following advantages to a developer:

1. Most of the hardware platform related aspects are abstracted out by the architecture. This ensures high portability of the developed codecs and applications. At the same time, the architecture is flexible enough to provide direct usage of underlying hardware capabilities – as required when the performance has higher priority over portability.
2. Common streaming models (live streaming or streaming of stored media) are already well supported by the architecture.
3. Applications and components can easily take advantage of the functionality provided by other components rather transparently.
4. Since MMF is loosely based upon the highly popular GStreamer architecture, all popular GStreamer plug-in components can be easily integrated to work with MMF compatible components.

Thus, the component developer can focus of the real technical aspects of the component implementation, all the while targeting a rapid realization of the product.

Features supported in the present version

OS Supported	RedHat enterprise Linux 4.0, Montavista Linux 4.0. Development is going on to support other operating systems - like Windows CE 6.0
CPU Architectures	x86, ARM v5. Support for MIPS platform is in progress.
H/W Platform supported	x86 based boards including PC/SBC/clones, TI-Davinci-DM6446 (ARM926EJ-S DSP) and DM6467 based boards.

MMF compatible modules currently available as NeST's I.P.	H.264 encoder module, MP3 decoder module, AAC decoder module, Live streaming module for the above media formats (using UDP/RTSP).
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