

NetFront™ Media Player

An Embedded Media Player for the Ubiquitous Internet Age

The phenomenal global growth of mobile phones and Internet devices signals the advent of the ubiquitous Internet age where consumers can enjoy digital content anytime and anywhere. Consumers today are actively accessing images and e-mail as well as music and videos via mobile devices. In this new era of anytime, anywhere access, the importance of mobile devices that offer advanced support for audio and video has never been greater. As an advanced, high performance and flexible media player solution, NetFront™ Media Player is the perfect complement to this new generation of mobile and Internet devices.

Advantages | NetFront Media Player

Platform-Agnostic

NetFront Media Player can be used on various platforms including mobile phones and TVs/STBs. NetFront Media Player can also be ported to various operating systems.

Extensive Support for Standards

NetFront Media Player supports many standards:

- **Container Formats:** MP3(ID3), MP4, 3GPP, ASF, AVI, MPEG2-TS/PS, MPEG1 System, QuickTime, WAV
- **Codecs (video):** H.263, H.264/AVC, MPEG-4, WMV9

Independent UI

NetFront Media Player offers a separate API for UIs so developers can select and customize the UI (including browser-based UIs) according to their needs.

Diversified Usage

NetFront Media Player supports playback of local content, streaming playback and broadcast reception playback.

- **Codecs (audio):** AAC, HE-AAC, AMR-NB/WB, MP3, WMA9
- **Protocols:** HTTP, RTP/RTCP, RTSP, SDP
- **DRM:** OMA DRM v1/v2, Windows Media® DRM 10 PD/ND, DTCP-IP, Marlin IPTV/ES

Integration with NetFront Browser

NetFront Media Player features tight integration with ACCESS' NetFront™ Browser, sharing libraries to help reduce development costs.

Features | NetFront Media Player

3GPP/Windows Media Player

- Playback of local content (MP4, 3GP, WMV, WMA, ASF)
- 3GPP RTSP/RTP streaming
- OMA DRM v1/v2
- Windows Media streaming
- Windows Media DRM 10 Portable Devices

Plug-In Players for NetFront Browser

- Control from JavaScript™ with DirectConnect

Integration with NetFront™ Living Connect

- Available as DMP/M-DMP/DMR players
- DLNA HTTP streaming
- Windows Media DRM 10 Network Devices

acTVila Video Players

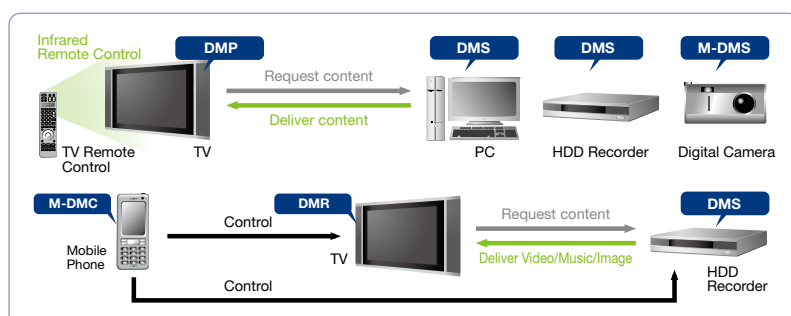
- Integration with NetFront Browser
- Support for acTVila video

DVB-H Players

- Integration with NetFront Browser, ESG, and CAS
- RTP streaming

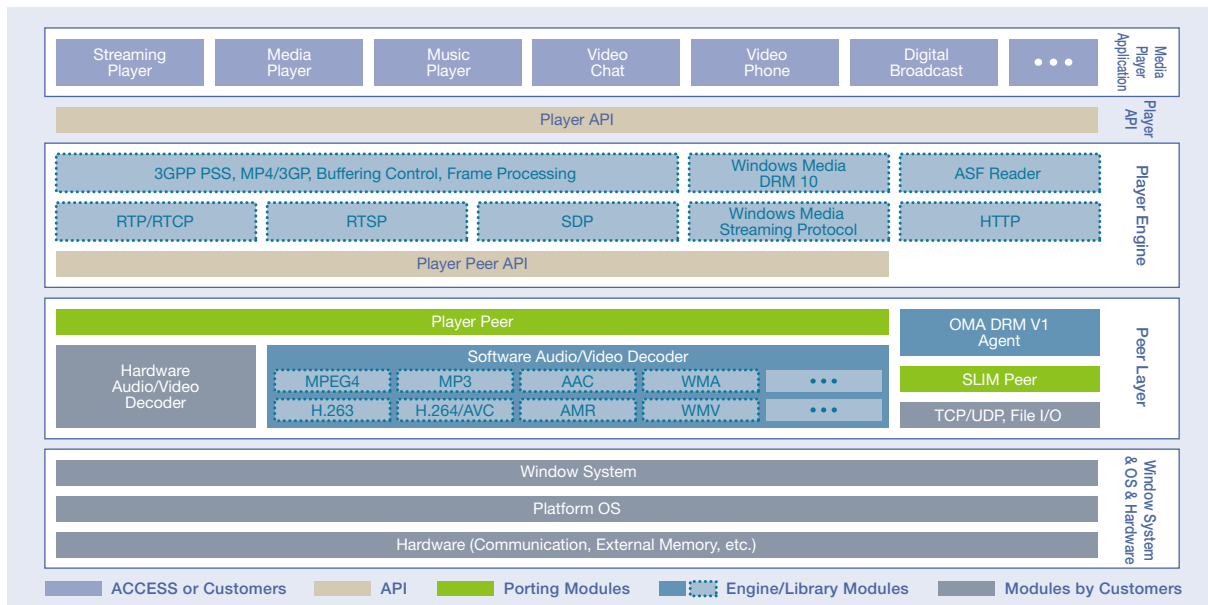


Example of Plug-In Player for NetFront Browser



Integration with NetFront Living Connect

Module Diagram | NetFront Media Player



Specifications | NetFront Media Player

Supported Platforms with Peer Layer

- Windows Mobile 6 for Classic and Professional
- STMicroelectronics STi7109
- Sigma Designs SMP8634

*NetFront Media Player is basically platform agnostic and runs on a variety of additional platforms.

Media Formats

Video

- H.263
- H.264/AVC
- MPEG2
- MPEG4
- Windows Media Video 9(VC-1)

Audio

- AMR-NB
- AMR-WB
- AAC-LC
- HE-AAC v1/v2
- MP3
- MPEG 1, 2 audio
- LPCM
- Windows Media Audio 9

Container Formats

- MP3(ID3)
- MP4
- 3GPP
- ASF
- AVI
- MPEG2-TS/PS
- MPEG1 System
- QuickTime
- WAV

General Functionalities

- 3GPP PSS R6 Standards compliant
- Packet Loss, Frame Rate, Jitter Controls
- Trick Play (Play, Stop, Skip, Pause, Fast-Forward, Fast-Rewind)
- MPEG2-TS/PS Demux
- Buffer Control
- RTSP/RTP Streaming
- RTP Payload Formats(H.264, MPEG4, H.263, AAC, AMR)
- HTTP Streaming (DLNA, acTVlla)
- Windows Media Streaming

DRM

- Windows Media DRM10 PD/ND
- DTCP-IP
- OMA DRM v1/v2
- Marlin IPTV/ES

Protocols

- RTSP, RTP/RTCP, SDP
- HTTP



OKI ACCESS Technologies Co.,Ltd (OAT) was established in November 2005 as a joint company between Oki Electric Industry Co., Ltd, and ACCESS CO., LTD. OKI ACCESS is focused on developing IMS (IP MultiMedia Subsystem) and FMC (Fixed Mobile Convergence) package solutions for next-generation mobile devices.
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