

# Moblesoft's Home Media Centre



Moblesoft's Home Media Centre (HMC) changes the home entertainment paradigm. It turns the concept of a virtual digital home into reality. The HMC lets a consumer enjoy live or stored multimedia anytime *and* anywhere. Using state-of-the-art H.264 encoding technology, video and music files can be easily transferred to players such as TV, PC, PDA, or Personal Media Player (PMP).

The transfer can be streaming Video-on-Demand (VOD) or live TV to a PC, PDA or mobile phone. Alternatively you can download media to these devices or Personal Media Players (PMP) for later viewing.

The HMC combines entertainment content (terrestrial TV, cable, satellite, IPTV) with broadband and wireless network technologies to bring the best of broadcasting and home media content to your TV or client devices. It provides a central location for media content storage and transmission on-demand services to devices inside or outside the home environment.

The HMC leverages existing home media devices (digital camera, MP3, TV) and PC to en/de/transcode and record for streaming to remote devices. This delivers a dramatic increase in the enjoyment of multimedia content of any selection, on any device, anywhere, at any time convenient to the end user.

An large variety of choice for communicating with peripherals and upstream hosts includes: USB 2.0 or Ethernet to support portable hard disk, IPTV, optical drive, memory card, Wi-Fi and Blue-tooth.

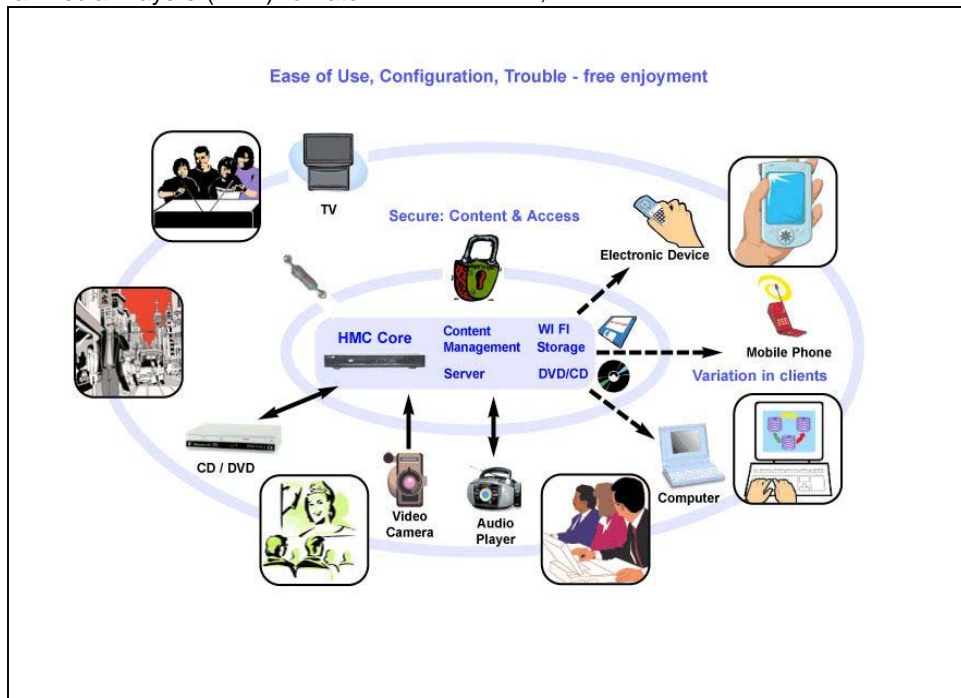
## State-of-the-art Video Coding Technology

H.264, MPEG-4 Part 10, AVC are all names for the same state-of-the-art video coding technology. The design aims of H.264 were to halve the size of compressed files compared to current technologies,

without compromising quality. An additional goal was to ensure flexibility so the standard could be applied to a wide variety of applications (high and low bit rates) and networks.

Moblesoft's HMC has implemented H.264 on a single chip with expandable architecture. Its error resilience and concealment provide smoother and clearer images.

This implementation of H.264 enables the efficient transmission of entertainment quality multimedia over mobile, wireless and broadband networks.



## Moblesoft's HMC Frees Consumers from Place and Time Constraints

The TV and PC used to be the primary entertainment devices in the home. These operate in fixed places, i.e., the TV in the living room and the PC at the desk. With the proliferation of network-capable consumer devices, such as the PDA, mobile phone and PMP, and the advancement of video compression technologies, the consumer can now enjoy media content on many devices.

**Space-shift viewing** provides real-time or on-demand streaming of video content to media players anywhere.

**Time-shift viewing** allows a consumer to store video/audio content for future viewing or streaming.

The Moblesoft HMC has both these capabilities.

## The HMC is a Personal Content Preparation Server

Mobilesoft's HMC is the first licensable consumer video server platform supporting H.264 compression and network streaming technologies.

A consumer these days can enjoy rich video and audio multimedia with a TV or PC at home. The HMC extends this pleasure. It provides a one-click process to record and transfer audio/video content to a PDA or PMP.

The HMC lets the consumer create and manage a personalised media library with facilities for content preparation, storage and management.

## Secure DRM

The software in the HMC has two-level protection. The enclosure has Mobilesoft's tamper-detect product which will detect any tampering with or without power applied. Once tampering is detected a programmed action will be performed. The action can be anything from just recording the interference to deleting all stored content.

The second level of protection is Mobilesoft's AdaptIX. It provides secure downloading of DRM or other control software and checks at each startup that the software has not been modified.

## HMC Capability

- TV Program Watching Anywhere:  
Convert any PC, PDA or mobile phone into a TV and watch live broadcast TV programming anywhere (place shifting).
- Personal Video Recorder Anywhere:  
Record, or schedule recording of favourite programs through the Internet from anywhere.
- Video on Demand Anywhere:  
Recorded programs can be downloaded to PC, PDA mobile phone or portable media player over the Internet and played back any time (time shifting).
- One-Click Record Content and Transfer:  
Record and transfer stored video programs and music through a PC to a favourite portable device, such as a video PMP, as easily as one-click. A dedicated button is provided for each device type.
- Robust, High Quality, Real-time Streaming  
The vastly improved compression ratios of H.264 over previous methodologies delivers high quality streaming over wireless, broadband and mobile networks.

## ■ Versatile Media Input Source:

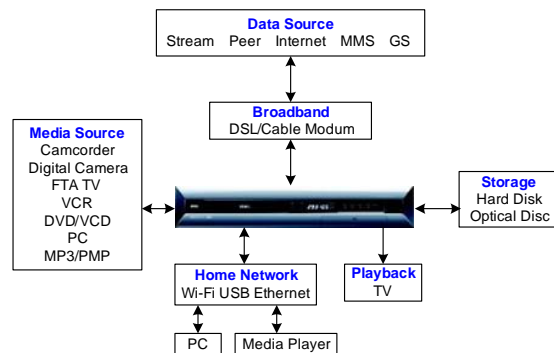
Operates with many audio/video input sources broadcast TV, STB, DVD/VCD, PC and card reader.

## ■ Infrared Control over IP Network:

Support remote infrared control of media devices at home, such as DVD or STB, over a local network or the Internet.

## ■ Personalised Content Management

Organise stored multimedia contents according to user preference and provide personalised channels for easy access and content updates.



## HMC Specifications

### Hardware

- 160 Gb HDD
- IBM POWER PC processor
- Equator Technologies BSP 15A DSP

### Media Technologies

- H.264/MPEG-4 Part 10/AVC media compression
- Device-specific H.264 encoding
- Media distribution to PC, PDA, mobile, PMP

### Network Technologies

- Ethernet and USB interfaces
- Broadband access
- Wireless/Mobility/Roam
- Home network/Security

### Entertainment/Media Content

- FTA TV
- Internet and PC
- Consumer media devices
  - Video camera
  - Digital camera
  - PMP, DVD