

CinePlayer CE SDK

Comprehensive Disc Player Engines

The CinePlayer CE Navigator SDK is a software development kit that allows developers for both PC and consumer electronics (CE) platforms to quickly and easily incorporate comprehensive, reliable playback of BD-ROM, HD DVD, DVD, Divx, Super Video CD, Video CD, and Audio CD formats

BD/HD DVD —

Complete support for all profiles and content types including BD-J and HDi interactive advanced content.

DVD Formats —

Support for DVD-V, +VR, -VR and Divx including software solutions for CSS and CPRM decryption.

CD Formats — Support for SVCD, VCD, CD-DA, MP3 CD

Integration Services

— Let Sonic's expertise assist you in integrating these features into your embedded platform accelerating your product to market.



Sonic CinePlayer CE SDK

The CinePlayer CE SDK is Sonic's powerful, comprehensive solution for playback of BD-ROM, HD DVD-V, DVD-Video, VCD, SVCD, and CDDA formatted discs. The SDK makes it simple and fast for OEMs and third-party developers to integrate playback functionality into host applications running in embedded environments. The SDK interprets all the details of supported formats so that in-depth knowledge of specifications is not required to enable full-featured, high-quality presentation of specification-compliant content.

CinePlayer CE is provided as a set of APIs that enables quick, easy, and flexible integration of BD/HD/DVD/CD playback capabilities into existing systems. Powerful and efficient, the APIs support an impressive feature set with minimal demand on system resources.

Sonic's 20+ years of engineering experience with optical media formats provides the highest level of compatibility for playback of digital media. Whether your product is targeted toward Set Top Box, Integrated Digital TV, or Automotive In-fo-tainment markets, Sonic's software and integration services are today's preferred solution.

SONIC®

101 Rowland Way, Novato, CA 94945 (415) 893-8000 authorscript@sonic.com

CinePlayer CE SDK

Comprehensive Disc Player Engine

BD-ROM Features

Standard Profile Title Playback		√
Full Profile Title Playback		√
HDMV Content		√
BD-J Objects		√
Physical Media		
BD25	Play back single-layer packaged BD-ROM media	√
BD-ROM Disc Image	Play back BD-ROM disc images from HDD	√
BD-ROM Volume	Play back BD-ROM Volumes from HDD	√
BD50	Play back dual-layer packaged BD-ROM media	√
BD-9	Play back BD-9 packaged BD-ROM media (BD-ROM AV content recorded onto a DVD-9)	√
BD-R support	BD-ROM recorded onto BD-R will be supported	√
Navigation		
Menu Call	Takes user to TopMenu and terminates current Title	√
Title Search	Search by title number	√
Chapter Search	Allow user to access chapters by number	√
Skip to Next Point	Next Point defined as Chapter Start or Chapter Stop point	√
Resume	Resume Title (e.g. after interrupting title by accessing Menu)	√
Primary Audio Stream Number Change		√
Angle Number Change		√
Subtitles On/Off Control		√
Subtitle Stream Selection Control		√
Player function of Movie object file		
MovieObjects()	Mandatory	√
Player function of Navigation command		
Navigation commands except SetSecondaryStream	Mandatory	√
SetSecondaryStream	Mandatory to be able to parse the SetSecondaryStream command, but the corresponding player functions are optional	√
BD-J object file support		
xxxxx.bdjo		√

CinePlayer CE SDK

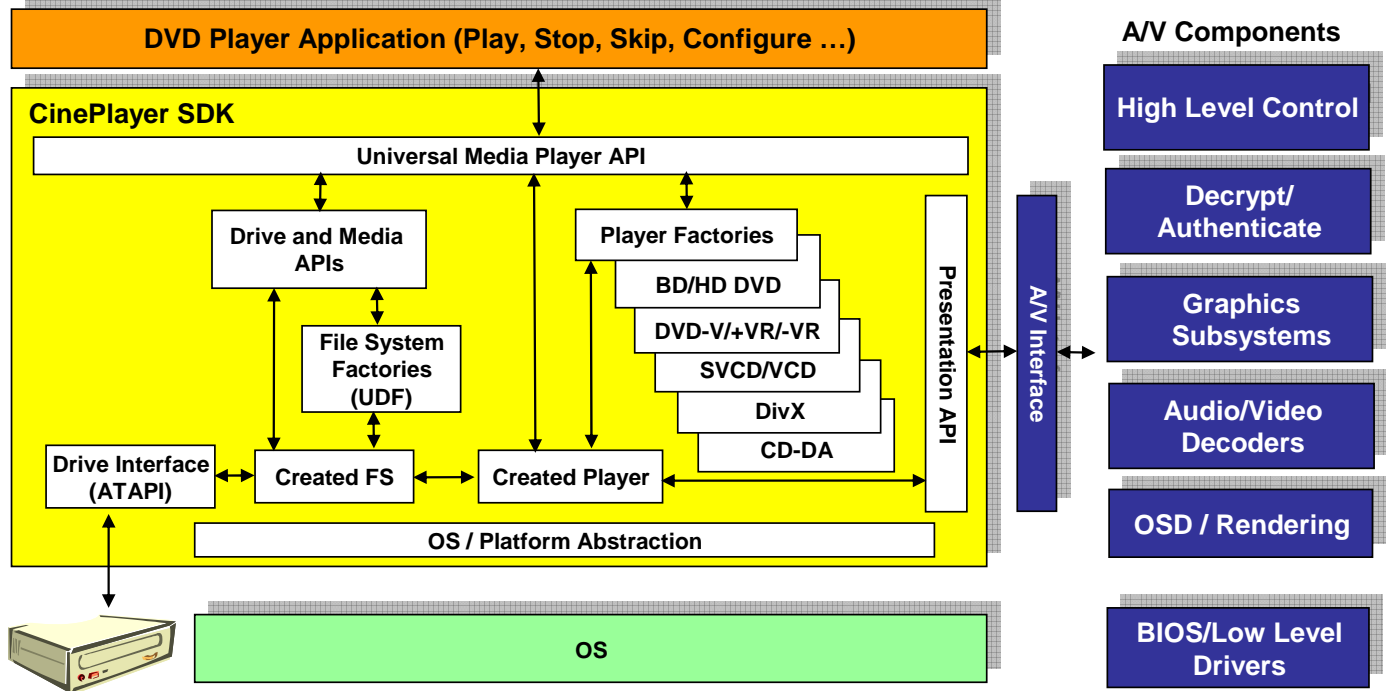
Comprehensive Disc Player Engine

HD DVD-Video Features

Standard VTS Navigation (type I discs)	√
Advanced VTS Navigation (type II discs)	√
Hybrid VTS (type III discs)	√
P-EVOB & S-EVOB Timeline - Stream/Track/Clip navigation	
Main Video Streams	√
Main Audio Streams	√
Sub Video Streams	√
Sub Audio Streams	√
Advanced Streams	√
Application Clips	√
Application Resource Clips	√
Advanced Subtitle Clips	√
Advanced Subtitle Resource Clips	√
Title Resource Tracks	√
Title Resource Clips	√
File Cache Loading Monitor	√
Pixel Buffer Loading Monitor	√
Chapter Points	√
Video/Audio/Subpicture/Advanced Subtitle Stream language setting	√
User Operations	
Play, Stop, Pause, REW, FFW, Chapter Skip	√
Video, Audio, Subtitle stream switching	√
Menu button, Up, Down, Left, Right, Enter Nav Command	√
Numeric Entry	√
Status of TC, Chapter, Stream No. etc	√
Advanced Content	
Advanced Subtitle	√
Manifest	√
Markup	√
Style	√
Animated Styles	√
Script	√
Font	√
Image - JPEG, PNG, MNG, Captured Image Format (CIF)	√
Effect Audio	√
Secondary E-VOB and TMAP	√
Network streaming of video/audio content	√

The logo for SONIC, featuring the word "SONIC" in a bold, red, sans-serif font with a registered trademark symbol (®) to the upper right of the letter "C".

CinePlayer SDK Block Diagram



CinePlayer SDK BD Player Model

