Software Synthesizer Library

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T E C H N O L O G Y

Overview

1. Sound Library

- □ *Support DLS (Downloadable Sounds)*
- □ *Provide Various Set (Including GM, …)*

2. Synthesizer Engine Library

- □ *High Portability*
- □ *Light Processing with Original Algorithm*

3. MIDI Player Library

- □ *Provide Player APIs*
- □ *Support Various OS, Platforms, and File Formats*
- □ *Key / Tempo / Guide Melody Control*

4. MIDI Driver Library

- □ *Provide Real-time MIDI APIs*
- □ *Support Various OS and Platforms*

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software synthesizer

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sound files

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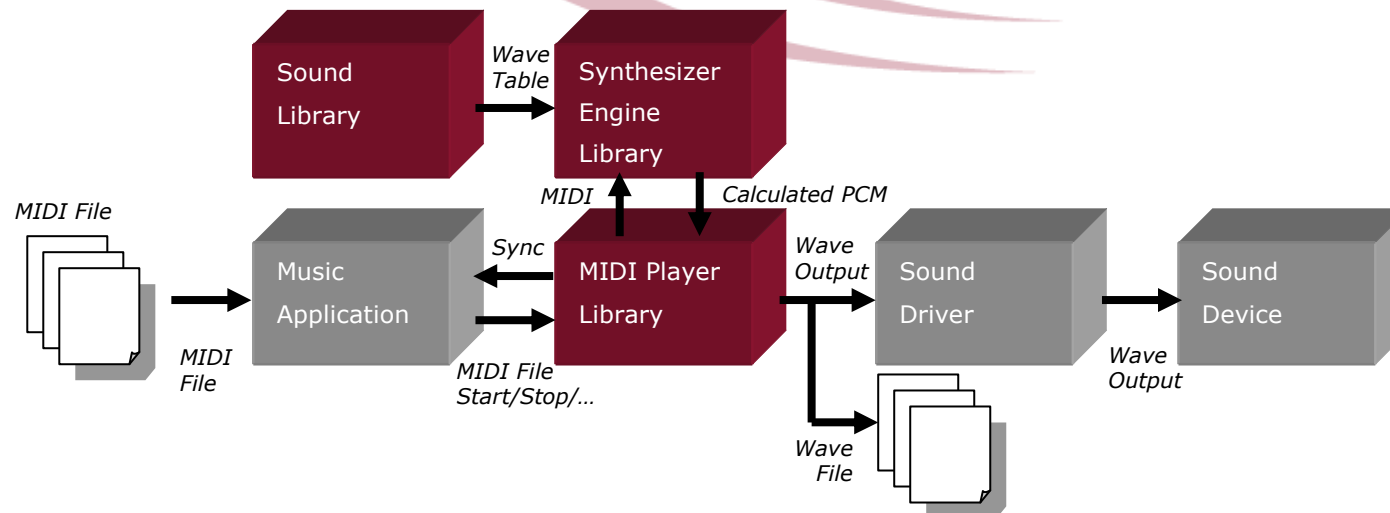**T E C H N O L O G Y**

1. Sound Library

- ## *Support DLS (Downloadable Sounds)*
    - *De facto Standard Format for Wave Table Synthesizer*
    - *Mobile DLS (-> Mobile XMF/3GPP) Standard*
    - *DLS Level 1/ 2*
- ## *Provide Various Wave Table Library Sets for Demanded Spec.*
    - *GM: 1.5MB ~ 14MB*
    - *GS (Roland SC-55, SC-88) Compatible: 3.6MB ~ 64MB*
    - *Mobile-Phone*
    - *Additional Customized Presets*

2. Synthesizer Engine Library

- □ **High Portability**
    - □ *Independent from OS/CPU/Platforms*
- □ **Module System**
    - □ *GM (General MIDI), GS (Roland), ...*
- □ **Support Various Targets**
    - □ *Light Processing > for Embedded (Mobile Phone /Smart Phone)*
    - □ *High Quality > for Professional KARAOKE / Software Instruments*
- □ **Internal Effects**
    - □ *Reverb*
    - □ *Chorus*
    - □ *Delay (GS Model Only)*
    - □ *EQ (GS Model Only)*
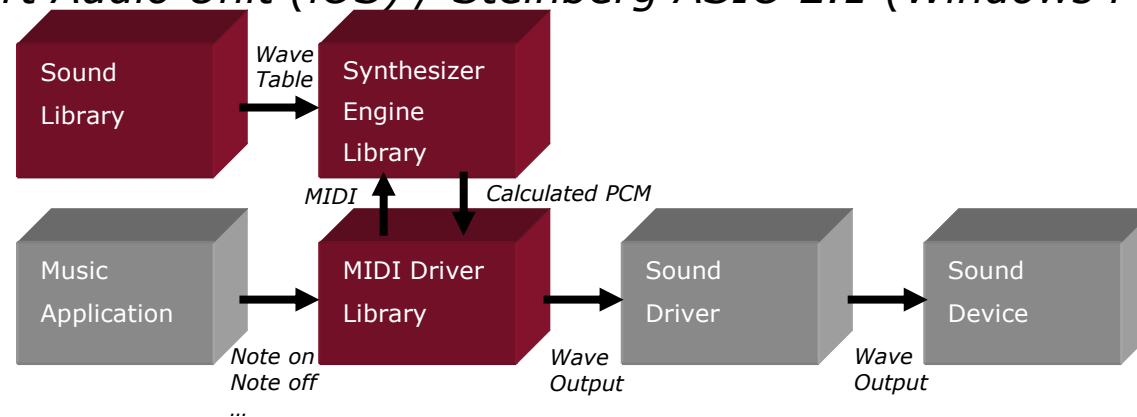
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3. MIDI Player Library

- □ **Provide MIDI File Player API**
  - □ *Easy to Construct Player/KARAOKE Applications*
  - □ *Provide Time Synchronization Method for Lyric, etc.*
  - □ *Support Key / Tempo / Guide Melody Control*
  - □ *Sample Accurate MIDI Rendering*
  - □ *Can be used as MIDI to Wave File Converter*
- □ **Support Various OS and Platforms**
  - □ *iOS / Mac OS X, Windows® PC/CE, Linux, BSD, VxWorks,...*
- □ **Support Various Standard Formats**
  - □ *SMF, MIDI Triggered Wav / AIFF / MPEG / ADPCM Playback (Option), ... ,*

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4. MIDI Driver Library

- *Provide Real-time MIDI API*
  - *Replace Hardware MIDI Module*
  - *Easy to Construct Virtual Instrument, MIDI Sequencer*
  - *Includes MIDI File Player*
- *Support Various OS and Platforms*
  - *iOS / Mac OS X, Windows® PC/CE, Linux, BSD, VxWorks,...*
  - *Emulate Win32 API (midiOut*() / midiStream*())*
- *Support Standard Format*
  - *SMF*
- *Low-Latency Solution*
  - *Support Audio Unit (iOS) / Steinberg ASIO 2.1 (Windows PC)*

Sound Library	*Wave Table* →	Synthesizer Engine Library			
		MIDI ↑ *Calculated PCM* ↓			
Music Application	→	MIDI Driver Library	→ Sound Driver	→ Sound Device
Note on Note off ...		*Wave Output*	*Wave Output*	

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And More...

□ **MIDI Authoring Environment**
- □ *Various File Converters Available*
- □ *Support Software Instrument Plug-In*
  - □ *Steinberg / VST, Apple / Audio Units*

□ **Customization**
- □ *Porting to Specified OS and Platforms*
- □ *Add Various Algorithm and Effects*
- □ *Add New File Format*

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