

<b>SAF</b>	<b>Studio Audio Filesystem</b>
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<b>Abstract</b>	
	<p>This document establishes a design for using Memory Cards in audio applications, especially discographic albums. The design allows:</p> <ul style="list-style-type: none"> <li>-Flexibility</li> <li>-No compromise performance</li> <li>-Affordability</li> <li>-Reliability.</li> </ul> <p>By using a computer-derived filesystem structure, with folder-separated data contents, we are able to satisfy the aforementioned conditions. This way the Memory Card will be able to be read by computer players, embedded players and portable players as well.</p>

<b>Structure</b>	
	<p>The Memory Card is formatted with a convenient filesystem and is divided into these main folders:</p> <p><b>MANDATORY FOLDERS:</b></p> <ul style="list-style-type: none"> <li>-<b>ROOT</b> (base folder): it contains the audio tracks files (as raw audio or annotated files like RIFF-WAV) numbered or named.</li> </ul> <p>They can use the following formats:</p> <ul style="list-style-type: none"> <li>-Uncompressed (ie. RIFF-WAV, AIFF, RAW)</li> <li>-FLAC</li> </ul> <p>Characteristics:</p> <ul style="list-style-type: none"> <li>-Sampling rate must be 44.1 kHz or higher.</li> <li>-Word length must be 16 bits or higher.</li> <li>-Channel number must be two or higher (mono must be delivered as two identical channels).</li> <li>-Only lossless compression is allowed.</li> </ul> <p>-<b>DISK</b>: it contains the files and (optional) instructions which can be used to obtain user-made CD 44.1 kHz / 16 bit optical prints of the album.</p> <p><b>OPTIONAL FOLDERS:</b></p> <ul style="list-style-type: none"> <li>-<b>COMPRESSED</b>: it contains compressed copies of the album tracks: <ul style="list-style-type: none"> <li>-Suggested format is OGG Vorbis.</li> </ul> </li> <li>-<b>EXTRAS</b>: it contains the human-readable track list and the album/tracks covers.</li> </ul> <p>Formats:</p> <ul style="list-style-type: none"> <li>-Track list: PDF, TXT, ODT.</li> <li>-Covers: JPG, BMP, PDF.</li> </ul>

<b>Consultancy</b>	<p>TangerineTech is available to consult on:</p> <ul style="list-style-type: none"> <li>-Player software for Computer and Embedded Systems.</li> <li>-SAF filesystem specification details.</li> </ul>
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