

NCTAudioStudio ActiveX DLLs

Version 1.7

NCTAudioStudio is a package of 14 ActiveX Controls DLLs for work with audio data.

NCTAudioStudio includes the following ActiveX DLLs:

- NCTAudioPlayer for playing audio data;
- NCTAudioRecord for recording audio data;
- NCTAudioFile for reading and writing audio data from and to audio files;
- NCTWMAFile for reading and writing audio data from and to WMA audio files;
- NCTAudioGrabber for grabbing CD audio;
- NCTAudioTransform for processing and transforming audio data;
- NCTAudioInformation for editing tags in audio files;
- NCTTextToAudio for conversion text to voice;
- NCTAudioDesign for designing audio application;
- NCTAudioLibrary for organization of audio files at your local disks;
- NCTAudioDisplay for visual representation of left and right channels of audio data in process of playback or record;
- NCTAudioVisualization for visual representation of audio data in process of playback or record;
- NCTAudioCompress for compressing and decompressing audio data in memory;
- NCTAudioBurner for recording audio files to CDs.

With NCTAudioStudio you can:

- Read and write audio data to and from audio files, including compressed (NCTAudioFile, NCTWMAFile);
- Perform different operations with audio files (conversion, merging and so on) (NCTAudioFile);
- Edit info tags in audio file (NCTAudioInformation);
- Record (NCTAudioRecord) and playback (NCTAudioPlayer) audio data in real-time mode;
- Control Mixer Devices in playback (NCTAudioPlayer) and record processes (NCTAudioRecord) in real-time mode;
- Grab audio from audio CD (NCTAudioGrabber);
- Transform audio data (NCTAudioTransform);
- Design audio application (NCTAudioDesign);
- Create data base for your audio files (NCTAudioLibrary);
- Convert text from text file or string to voice (wav file or audio data) (NCTTextToAudio);
- Display audio signal or its spectrum in process of playback or record (NCTAudioVisualization, NCTAudioDisplay);
- Compress and decompress audio data (NCTAudioFile, NCTAudioCompress);
- Write audio files to CDs (NCTAudioBurner);

The following audio formats are supported:

- Uncompressed WAV PCM;
- Compressed WAV (GSM, ADPCM, DSP, ALF2 CD and others);
- MP3 (including VBR);
- MP2;
- VOX (Dialogic ADPCM);
- RAW;
- WMA;
- AVI (audio);
- G.726, G.723, G.721;
- Ogg Vorbis;
- MPC;
- Mobile Voice.

You can insert the NCTAudioStudio ActiveX Controls in your program, written in a language, which supports ActiveX automation.

NCTAudioStudio was tested with:

- MS Visual Basic .NET;
- MS Visual C# .NET;

- MS Visual C++ .NET;
- MS Visual Basic 6.0 (SP5);
- MS Visual C++ 6.0 (SP5);
- Borland C++ Builder 6.0;
- Borland Delphi 6.0.

Lots of free MS Visual Basic 6.0, Visual C++ 6.0 and Borland C++ Builder 5.0, Delphi 6.0 samples, which shows how to use NCTAudioStudio's controls, are included into the installation.

INSTALL:

run NCTAudioStudio.exe.

SYSTEM REQUIREMENTS:

- Windows 98/Me/NT/2000/XP,
- Sound card,
- Microphone (optional),

You can send any questions to support@nctsoft.com

For more information see: <http://www.nctsoft.com/products/NCTAudioStudio/>

New in version 1.7:

New ActiveX DLL: NCTAudioCompress.

New ActiveX DLL: NCTAudioBurner.

New in NCTAudioFile:

- Ogg Vorbis audio format version 1.0 is completely supported now;
- New methods: IsAvailableFormatMpeg, IsAvailableFormatOggVorbis;
- Modified methods: SetFormatG726, SetFormatG723, SetFormatMP2, SetFormatMP3, SetFormatOggVorbis;
- New properties: G726BitsPerSample, G723BitsPerSample;

New in NCTAudioTransform:

- Modified methods: Expander and Compressor.

New in version 1.6:

New ActiveX DLL: NCTAudioDisplay.

New in NCTAudioPlayer:

- Deleted properties: KeyCode, TypeLevel.
- New method: Register.

New in NCTAudioFile:

- New object: AudioFileLameMp3Encoder.
- New properties: G723Bitrate, Mp3LameEncoder, Mp3TypeDecoder, Mp3Typeencoder, WmaFormatEnabled.
- Deleted properties: KeyCode, Mp3Quality, Mp3VbrMaxBitrate, Mp3VbrQuality.
- New methods: Register, SetFormatG721, SetFormatG723, SetFormatMp2, SetFormatWMA.
- Modified methods: SetFormatADPCM, SetFormatALAW, SetFormatALF2CD, SetFormatDSP, SetFormatG726, SetFormatGSM, SetFormatMobileVoice, SetFormatMP3, SetFormatOggVorbis, SetFormatPCM, SetFormatRAW, SetFormatULAW, SetFormatVOX.

New in NCTAudioInformation:

- New properties: infoEncodedBy, infoTrack, infoURL, mp3FastAnalysis, mp3TagInfoVersion.
- Deleted properties: FastMP3Analysis, KeyCode.
- New methods: IsAudioFile, IsAviFile, IsInfoSupport, IsMp2File, IsMpPlusFile, Register.

New in NCTAudioGrabber:

- New properties: cddbTimeOut, cdID, cdType, driveCount, driveLetter, driveLockCDTrayDuringGrab, driveName, driveNum, driveReadType, driveSpeed, driveSpinUpTime, GrabModePreset, grabOnErrorAction, grabOnErrorRetries, grabSafeMode, grabUseExternalASPI, safemodeCoolDownTime, safemodeGrabTime.
- Deleted property: cdCount, cdDiskId, cdDiskType, cdLetter, cdNum, cdName, cdSpeed, cdType, cddbIsInfoEnabled, InternetConnection, KeyCode.
- New methods: Eject, Register, SetSafeModeParams.
- Deleted methods: CloseCDDoor, OpenCDDoor.
- New events: CDDbQueryStatus, MediaChange.

New in NCTAudioTransform:

- Deleted property: KeyCode.
- New methods: Compressor, Expander, MakeStereoFromArray, MixArrays, Phaser, Register, Reverb.
- Deleted methods: MixTwoArrays, MultiTabDelay.
- Modified methods: Delay, DeleteSilence, DuplicateArray, Equalizer, Flanger, GetLeftStereoChannel, GetRightStereoChannel, Resample, TrimLeft, TrimRight, Vibrato.

New in NCTWMAFile:

- New properties: nProfiles, WMAProfileName.
- Deleted property: KeyCode.
- New method: Register.

New in NCTAudioDesign:

- New objects: NCTEqualizer, NCTFlatButton, NCTFlatSlider, NCTPlayButtonB, NCTSliderA, NCTSliderB, NCTTimeDisplay.
- New in NCTAmpBar:
 - Deleted property: KeyCode.
 - New method: Register.
- New in NCTCMU:
 - Deleted property: KeyCode.
 - New method: Register.
- New in NCTSliderA:
 - Deleted property: KeyCode.
 - New method: Register.
- New in NCTSliderB:
 - Deleted property: KeyCode.
 - New method: Register.
- New in NCTPlayButton:
 - New properties: Color, MousePointer, Pause, NextBtnEnabled, PlayBtnEnabled, PreviousBtnEnabled, RecordBtnEnabled, StopBtnEnabled.
 - Deleted properties: KeyCode, Backcolor, NextBtnEnable, PlayBtnEnable, PreviousBtnenable, RecordBtnEnable, StopBtnEnable.
 - New method: Register.
- New in NCTStepButton:
 - New property: Color.
 - Deleted properties: KeyCode, BackColor..
 - New method: Register.
- New in NCTVolumeButtonA:
 - New property: Color.
 - Deleted properties: KeyCode, Backcolor.
 - New method: Register.
- New in NCTVolumeButtonB:
 - Deleted property: KeyCode.
 - New method: Register.

New in NCTAudioVisualization:

- New properties: ArrayChannels, LineColorLeft, LineColorRight, WindowArraySize, WindowFFTType.
- Deleted properties: KeyCode, ArraySize, Color.
- Modified properties: BorderStyle, VisType.
- New methods: Register, Sendarray.
- Deleted method: SendBlock.

New in NCTTextToAudio:

- Deleted property: KeyCode.
- New method: Register.

New in NCTAudioLibrary:

- Deleted property: KeyCode.
- New method: Register.

New in NCTAudioRecord:

- Deleted property: KeyCode.
- New method: Register.

New in version 1.05:

New ActiveX DLL: NCTTextToAudio.

New in NCTAudioPlayer:

- New property: devVolume .

New in NCTAudioFile:

- New method: SetFormatOggVorbis.

New in NCTAudioInformation:

- New properties: cueCodePage, cueCount, cueCountry, cueDialect, cueLabel, cueLanguage, cueLength, cueNote, cueNum, cuePosition, cueText.
- New methods: DeleteCue, InsertCue, IsOggVorbisFile.

New in NCTAudioGrabber:

- New properties: cdDiskID, cdDiskType, cdSpeed, cdType, InternetConnection.
- Deleted property: cdReadType.
- New methods: CloseCDDoor, OpenCDDoor.
- Deleted methods: MCIClose, MCIOpen, MCIPause, MCIPPlay, MCISStatus, MCISStop.

New in NCTAudioTransform:

- New properties: ArrayChannels, SmoothTime, TBEventEnabled.
- Deleted property: Normalization, SmoothLength.
- New methods: AddNoise, CancelTransform, DublicateArray, Envelope, GetLeftStereoChannel, GetRightStereoChannel, MakeMonoFromStereo, MakeStereoFromMono, MixMonoToStereo, MixStereoChannels, MixTwoArray, MultiTapDelay, TrimLeft, TrimRight.
- Deleted methods: FFTTransform, GetLeftChannel, GetRightChannel, Mix, MixToStereo, NoiseGenerator, PulseGenerator, SinGenerator.
- Modified methods: Amplify, BandPassFilter, Delay, DeleteSilence, Equalizer, Fade, FFTFilter, Flanger, HighPassFilter, HighShelfFilter, Invert, LowPassFilter, LowShelfFilter, Normalize, NotchFilter, PeakEQFilter, Resample, Reverse, Silence, Vibrato.
- New event: TransformBlock.
- Deleted event: OperationBlock.

New in version 1.04:

New ActiveX DLL's: NCTAudioLibrary and NCTAudioVisualization.

New in NCTAudioPlayer:

- New method: GetCurrentArray.

New in NCTAudioRecord:

- New method: GetCurrentArray.

New in NCTAudioFile:

- New property: FastMP3Analysis.
- New method: SetFormatMobileVoice.

New in NCTAudioInformation:

- New property: FastMP3Analysis.

New in NCTAudioGrabber:

- New methods: MCIOpen, MCIClose, MCIPplay, MCIPause, MCISStop, MCISStatus.
- New event: EndReadTrack.

New in NCTAudioTransform:

- New property: Normalization.

New in version 1.03:

New ActiveX control: NCTAudioDesign.

New in NCTAudioPlayer:

- New properties: EqualizerEnabled, TypeLevel;
- New methods: SetEqualizerArray.

New in NCTAudioRecord:

- New properties: HighPassFilterEnabled, HighPassFilterFrequency, LowPassFilterEnabled, LowPassFilterFrequency, NotchFilterEnabled, NotchFilterFrequency, TypeLevel.

New in NCTAudioFile:

- New methods: SetFormatALF2CD;
- Modified methods: OpenFile.

New in NCTAudioGrabber:

- New properties: cddbAgentName, cddbCGIScript, cddbinfoAlbum, cddbinfoArtist, cddbinfoGenre, cddbinfoTitle, cddbinfoEnabled, cddbServerAddress, cddbServerHTTPPort, cddbUseCDPLAYER_INI, cddbUserEMail;
- New methods: GetCDDDBInfo, GrabTrackToRaw, GrabTrackToWav.

New in NCTAudioTransform:

- Replaced properties: SmoothLeftEnabled and SmoothRightEnabled instead SmoothEnabled;
- New methods: BandPassFilter, DeleteSilence, Equalizer, Flanger, HighShelfFilter, HighPassFilter, LowPassFilter, LowShelfFilter, NotchFilter, PeakEQFilter, Vibrato;
- Replaced methods: DBToPercent instead DBToSingle, PercentToDB instead SingleToDB;
- Modified methods: Amplify, Delay, Fade, Mix, Normalize.

New in version 1.02:

New ActiveX controls: NCTAudioTransform, NCTWMAFile, NCTAudioGrabber.

New in NCTAudioFile:

- New properties: Duration, LastErrorNum, MP3VbrMaxBitrate, MP3VbrQuality;
 - Replaced properties: Bitrate instead MP3Bitrate, BitsPerSample instead RawBitPerSample;
 - Deleted properties: CurrentSamples;
 - New methods: SetFormatALAW, SetFormatUILAW.
 - Modified methods: SeekFile, SetFormatADPCM, SetFormatDSP, SetFormatFromMenu, SetFormatGSM, SetFormatLikeSample, SetFormatMP3, SetFormatPCM, SetFormatRAW, SetFormatVOX.
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