



Emblaze - VCON HDDK Version 7.0 Release Notes

1. General

This document outlines changes and new features in version 7.0 of Emblaze – VCON HDDK.

Following is the list of changes and additions in version 7.0

1) Data Sharing

Feature	Region sharing and Window Sharing – Play File
Description	The ability to share any window or a region on the screen has been added to HDDK capabilities
API	Using PlayFile parameter in video.ocx [Note 4.4.1]

2) Audio Only Call

Feature	Maintain an audio only call
Description	The ability to maintain an audio only call has been added. This capability is controlled via call priority parameters and also via dial pad dialog
API	Using SetConfigurationParamLong method to define priority in lan.ocx

3) Speaker calibration

Feature	Speaker calibration capability
Description	The ability to calibrate the speaker output level. This feature is incorporated into the audio tuning wizard
API	<ul style="list-style-type: none">- Using StartSpeakerTuning, StopSpeakerTuning method in audio.ocx- TuningUpdate event modified. New parameter for TuningType [Notes 1.1.4, 1.1.5]

4) *Microphone Tuning and test feedback*

Feature	Microphone Test feedback
Description	The ability to play back to the user the audio recorded sample within the audio tuning wizard
API	<ul style="list-style-type: none"> - MicrophoneTuningPlayback method added in audio.ocx. - TuningUpdate event modified. New parameter for TuningType [Note 1.1.6, 1.1.7]

5) *Headset and Speaker Profile*

Feature	Create headset and speaker profile
Description	The ability to configure two profiles using the audio tuning wizard, one for headphones, and one for speakers
API	Using DeviceMode property in audio.ocx [Note 1.1.1]

6) *WMV9 file codec for vMail*

Feature	vMail format is saved in WMV9 format
Description	The ability to send the vMail recorded file using WMV9 codec, instead of the Indeo© codec.
API	Call to ConvertFileToWMV9 of record.ocx. Corresponding event callback ConversionUpdate is fired with. [Note 3.3.1, 3.3.2]

7) *H.263 Improvements*

Feature	Various improvements in H.263 protocols
Description	<ul style="list-style-type: none"> - Support QVGA by default - Use an enhanced H.263 encoder - Native use of QVGA in H.263+ in web cameras
API	None

8) *Audio Improvements*

Feature	Use of AAC-LD 20KHz audio codec where possible
Description	Using the AAC-LD 20KHz audio codec where available, depending on hardware resources
API	Check if hardware supports this codec using LANTxAudioAacLdEnabled parameter of GetConfigurationParamLong of lan.ocx

9) Multiple IP support

Feature	Support multiple IP machines
Description	Support listening on multiple IP's on machines with multiple network interfaces and setting the address for multicast calls.
API	Using parameter LANSelectedLocalBroadcastIPAddress of SetConfigurationParamString method of lan.ocx for multicast calls. [Note 2.2.4]

10) USB microphone enhancements

Feature	Use enhanced features in USB microphones
Description	The ability to operate ANS (XP only) and VAD in USB microphones
API	None

11) Ringing device selection

Feature	Select the output device for incoming call ringing
Description	The ability to select which output device will be used for ring indication for incoming call
API	<ul style="list-style-type: none"> - Using RingOutputDevice for incoming and outgoing call alert - Using IncomingRing method to define the wave file for incoming ring - Using OutgoingRing method to define the wave file for incoming <p>SystemParamUpdateString event retrieves the AudioRingingDevice. New values are LANIncomingRing and LANOutgoingRing Can also use empty string for PC speaker or "None". All in audio.ocx [see note1 1.1.2, 2.2.1 and 2.2.2]</p>

12) VMR obligation

Feature	Use of VMR is an obligation for using video
Description	Using the Video capabilities has a prerequisite of the installation of direct show 9 to enable VMR capabilities. An error message is displayed when requirement is not met.

API	Using InitSystem , throws an exception which code is retrieved using GetLastError
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13) *Bit rate enhancements*

Feature	Enhancements to incoming and outgoing bit rates using desktop dongle
Description	Outgoing bit rate can be higher then 512Kb Incoming bit rate can be higher then 1Mb
API	None

14) *AGC*

Feature	Support for automatic gain control
Description	Support for automatic gain control
API	Using AGC property of audio.ocx and SystemParamUpdateLong event [note 1.1.3]

15) *FEC Operation statistics*

Feature	FEC operation statistics
Description	Display various statistics when the FEC mechanism is operational
API	Using GetChannelParam method of lan.ocx. Various values are available, such as ChannelPacketLost, ChannelBurst, ChannelAverageDelay, ChannelAverageRxInnerJitter, ChannelPacketLostAfterFec, ChannelRemoteFecSupport, ChannelFecAlgorithm, ChannelRoundTripDelay, ChannelResolutionWidth, ChannelResolutionHeight

16) *MXM participant info*

Feature	Display MXM participant alias or E164 number
Description	Display MXM participant alias or E164 number
API	Using GetParticipantParamString method of lan.ocx to retrieve ParticipantAlias or ParticipantE164

17) *Additional Video Channel Resolutions*

Feature	Retrieve channel resolution
Description	Additional resolutions added, and retrieval option adjusted
API	Using parameter ChannelVideoResolution of method GetChannelParam in lan.ocx.



	Additions resolutions are: ResolutionSQVGA, ResolutionNTSCEX, ResolutionPALEX, Resolution625SDEX, Resolution16By9VGA, ResolutionCustom
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18) **Check H.264 availability**

Feature	Check if H.264 video codec is available on this machine
Description	Ability to check if H.264 video codec is available on this machine (performance wise)
API	Using LANTxVideoH264Enabled parameter of GetConfigurationParamLong method of lan.ocx

19) **Check AAC availability**

Feature	Check if AAC audio codec is available on this machine
Description	Ability to check if AAC audio codec is available on this machine (performance wise)
API	Using LANTxAudioAacLdEnabled parameter of GetConfigurationParamLong method of lan.ocx

20) **Vcon Remote Side Version**

Feature	New event parameter to signal version 7.0 client
Description	Ability to distinguish that remote side is using version 7.0 of HDDK
API	Event RemotIsVCON parameter of GetConfigurationParamLong method of lan.ocx



HDDK API Changes:

1. Audio ocx

- 1.1 New property DeviceMode added.
- 1.2 New property RingingOutputDevice added.
- 1.3 New property AGC.
- 1.4 New method StartSpeakerTuning.
- 1.5 New method StopSpeakerTuning.
- 1.6 New method MicrophoneTuningPlayback.
- 1.7 An event TuningUpdate was modified.

2. Lan ocx

- 2.1 Property Ring was modified to IncomingRing.
- 2.2 New property OutgoingRing was added.
- 2.3 An event IPAddressesListChanged was modified.
- 2.4 When the application is loaded on multiple IPs, SelectedIPAddress (OBSOLETE) parameter of Get/SetConfigurationParamString is not used, in order to know, to which network to make a broadcast, a new LANSelectedLocalBroadcastIPAddress parameter is used.
- 2.5 MessageReceived method prototype changed
- 2.6 IPAddressesListChanged method prototype changed

3. Record ocx

- 3.1 New method ConvertFileToWMV9 added.
- 3.2 New event ConversionUpdate added.

4. Video ocx

- 4.1 Method PlayFile changed
- 4.2 Method Grab changed

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