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1. SynCTI Driver 5.3.2.7 Upgrade Instruction

New Features & Fixed Bugs (This version supports 32-bit or 64-bit Windows OS and Linux OS)

Series	Feature	Supported Board Model	New Feature & Fixed Bug
SHN	VoIP Media Processing & Signaling	SHN Series	Support the SIP channel to send the call transfer, call hold or call unhold request during an ongoing call.
			Better support the function SsmSetTxCallerId for SIP channels.
			Support the new board model SHN-120B-CT/PCIe/VAR.
			Improve the capability in the peer to peer incoming call processing for registered SIP channels.
			Allow the Domain field to be filled in with a domain name in multi-channel registration.
			Solve the problem that SDP fails to be queried due to frequent reception of the invite message.
			Solve the problem that the APP crashes due to the dynamical configuration of the log for the IP board in case no SHN series boards are installed.
			Solve the problem that the driver state goes abnormal as COT doesn't reply the ACK message.
			Improve the capability in parsing the abnormal message header.
			Improve the capability in parsing the domain name for multi-channel registration.
SHD	Digital Media Processing & Signaling	SHD Series	Support to set the SS7 subservice code in a specified link set.
			Improve the ISDN processing.
			Support the range of 64~126 for TEI value.
DST	Digital Station Tap Boards	DST-24B/PCI	Better support the Siemens AC WIN4.0 console.
			Better support the ERICSSON digital phone.
			Better support the LCD info display of AVAYA PBXes.

FAX	Fax Board	SHF Series	Support to encode the pagination of the current page in the page header.
			Better support the function SsmFaxStartReceive.
IPR	VoIP Recording Software	NTP-480A/PCle	Better support the NTP board working under the non-administrator user mode.
			Better support the function SsmGetAccreditIdEx for the NTP board.
			Newly support the ALCATE 4059 console.
		IPR series	Newly support the RTP-only recording mode.
			Newly support the G722 RTP recording.
			Newly support LG NORTEL PBXes
			Better support CISCO PBXes
			Better support the IPR capture.
			Better support the processing of non-standard RTP addresses in IPR recording.
			Newly support the recording of specified IP calls.
			Better support CISCO H323.
			Newly support the separate recording of two extensions for an ongoing call.
			Better support the IPR recording under registration.
			Better support the recording for target monitoring.
			Support to obtain the original SIP message.
DTP	DTP	DTP Series	Newly support three interfaces - framing, coding and sync – on the configuration tool.
Install package	Install package	All	Support to modify the driver's default installation path in the setup.ini file.
			Newly support to configure the installation package to be neutral.
Newly Added Configuration Item	Add a new configuration item SubServicefield under the section [LinkSetInfo] to set the SS7 subservice code in a specified link set.		

	Add a new configuration item RTPCtrlRec under the section [BoardId=x] to set the RTP-Only mode switch for SynIPAnalyzer.
	Add a new configuration item AfterFlashNotAffectChState under the section [SystemConfig] to set whether to keep the channel state after the flash operation.
	Add six new configuration items LPTSPort, LPTSPortType, PhonePort, PhonePortType, NonStationAddressNo and NonStationAddress[y] under the section [IPRLGNortel] to set the LG Nortel monitoring.
	Add a new configuration item SipSearchChInRegisterChannel under the section [SIP] to set whether to search for an idle channel only from the registered channels while receiving a peer to peer incoming call.
	Add a new configuration item SipDomain under the section [SIP] to set whether to parse the SIP server domain name while checking the Registration state of the channel.
	Add a new configuration item LocalHookFilterTime under the section [SystemConfig] to set the minimum duration for judging the flash signal.
	Add three new configuration items RegOutBoundProxyAddr, RegAuthUserName and RegDisplayName under the section [SIP] to set Bound External Address, Authentication Username and Display Username for the multi-channel registration.
	Add a new configuration item TelephoneEventsPt under the section [BoardId=x] to set the DTMF RFC2833 payload format for local reception.
Newly Added Function	Add a new function fPcm_NotchFilter_ULAW to filter the specific frequency from a μ -Law formatted voice file which is recorded by the Synway board using the notch filtering algorithm.
	Add a new function SsmSipChHold to send the Call Hold or Call UnHold request from SIP channels to the remote end.
	Add a new function SsmSipChTransfer to send the Call Transfer request from SIP channels to the remote end during an ongoing call.
	Add a new function fBmp_SetHeaderFormatA to set the properties of the page header of a .tif formatted fax file to determine the pagination position, the prefix, etc.
	Add a new function SsmCheckMediaChRTPTIMEout to set the timeout value for a specified media channel to receive RTP data from the remote end or checks whether the RTP data reception is overtime.

Release Date: July, 2014

2. SynCTI Driver 5.3.3.0 Upgrade Instruction

New Features & Fixed Bugs (This version supports 32-bit or 64-bit Windows OS and Linux OS)

Series	Feature	Supported Board Model	New Feature & Fixed Bug
SHN	VoIP Media Processing & Signaling	SHN Series	Newly support to obtain the Reason field from the 480 message.
			Improve the processing of the call transfer message.

			Add the new board model SHN-480C-CT/PCle which only supported by Windows OS.
			Better support IMS network.
			Enable the A-type IP board to support the feature of RTP address auto-detection
			Newly support the compatible processing of the 180 and 183 messages.
			Add a new feature to support receiving DTMF in Signaling mode only.
			Newly support the setting to determine whether to enable the RTP traversal feature on a designated channel.
SHD	Digital Media Processing & Signaling	SHD Series	Newly support to record the synchronous data and signaling messages on T1 trunk.
			Support the configuration item DTMFFreqOffset.
			Support the functions related to Tone.
			Support the Prerecord feature on ISDN, ISUP, TUP channels.
			Provide the function to parse the IAM message to obtain the callerID/calleeID.
DST	Digital Station Tap Boards	DST-24B/PCle+	Better support the monitoring of BRI lines.
FAX	Fax Board	SHF Series	Support the new board model SHF-4D/PCle.
IPR	VoIP Recording Software	NTP-480A/PCle	Newly support the TADICOM MGCP protocol.
		IPR series	Newly support the re-dial button for ALCATE PBXes.
			Newly support to parse the NOTIFY message in SIP for NEC PBXes.
			Newly support SAMSUNG PBXes.
			Newly support to monitor two network cards simultaneously.
			Better support the recording of SHORTEL MGCP PBXes.
DTP	DTP	DTP Series	Newly support the DPNSS protocol.
			Support the function SsmGetIsdnMsu.

Install package	Install package	All	Upgrade the Linux driver to support the kernel version 3.13.5.
Configuration tool	Configuration tool	All	Add the dynamic recording feature to the configuration tool for Linux
			Solve the problem that the application will report error while using the configuration tool to add the IP board manually.
Header file	Header file	All	Enable the header file of C# to support the 64 bit OS.
			Add the statement of the function SsmIPGetStunPublicIP to the header file of Delphi.
Tone	Tone	All	Newly support the ZVEI-I tone detection
			Newly support the feature of distinguishing the ringback music from the cue tone.
Newly Added Configuration Item	Add a new configuration item HandleWithoutCic under the section [Ss7SystemConfig] to set whether to get the decoding messages by the function SsmGetDecodeSs7Msu in case there is no CIC set in SS7.		
	Add two new configuration items MonitorPort, MonitorPortType under the section [IPRSAMSUNG] to set the Samsung monitoring.		
	Add four new configuration items CallAgentPort, CallAgentPortType, GatewayPort, GatewayPortType under the section [IPRTadicomMGCP] to set the Tadicom MGCP monitoring.		
	Add a new configuration item SelcallToneDetectMode under the section [SystemConfig] to set whether to enable the Selcall Tone detector.		
	Add a new configuration item SelcallToneType under the section [SystemConfig] to set the type of Selcall Tone		
	Add a new configuration item SelcallTonePara under the section [SystemConfig] to set the frequency parameter of Selcall Tone.		
	Add a new configuration item EnableAMDBeep under the section [SystemConfig] to set whether to enable the feature of distinguishing the ringback music from the cue tone when the tone detector is working.		
	Add a new configuration item OctLogEnable under the section [SystemConfig] to set whether to output the debugging and error information of Oct to the log file.		
	Add a new configuration item OctMac0 under the section [BoardId=x] to set the MAC address of Ethernet 1 on the SHN C series board.		
	Add a new configuration item DhcpServer under the section [DHCP] to set the IP address of the on-PC Ethernet port for control messages.		
	Add a new configuration item ProcessorCtrlMac under the section [DHCP] to set the MAC address of the on-PC Ethernet port for control messages.		

	Add a new configuration item FilterMacRange under the section [DHCP] to set the MAC address whose IP can be allocated by the DHCP server.
	Add a new configuration item BootFileName under the section [DHCP] to set the name of the firmware to be loaded.
	Add a new configuration item LogLevel under the section [DHCP] to set the switch for DHCP and TFTP logs.
	Add a new configuration item DHCPRange under the section [DHCP] to set the range of DHCP IP address.
Newly Added Function	Add a new function SsmSipSetConnectionInforOfSDPEx to set the IP address in the Connectioninformation field in the SDP message body of the Invite or 200 message for SIP and inform the remote end to send the RTP data to this IP address.
	Add a new function SsmSipSetContactSection to designate host and port of the 'Contact' field in the invite, 180 and 200 messages which are sent out from the SIP channels.
	Add a new function SsmIPGetMsgFieldStr to obtain a series of field values from those messages related to the call establishment of a designated channel.
	Add a new function SsmGetDecodeSs7Msu to obtain the calling/called party number, DPC, OPC and the original called party number from the MSU receive buffer of the driver.
	Add a new function SsmSipChEnableRtpStun to set whether to enable the RTP traversal feature on those SIP channels within the range from channel nChFrom to channel nChTo.
	Add a new function SsmGetSelcallToneStr to obtain the Selcall Tone characters saved in the buffer area of the Selcall Tone detector.
	Add a new function SsmGetSelcallToneLen to obtain the number of DTMF characters saved in the buffer area of the Selcall Tone detector.
	Add a new function SsmClearSelcallToneBuf to clear the Selcall Tone reception buffer area in the driver.

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