

SynCTI Upgrade Instruction

SynCTI Ver. 5.2.0.0

Release Date: June, 2010

New Boards

Series	Feature	Board Model	New Feature	Note
SHD	E-type Digital Trunk Boards	<p style="text-align: center;"> SHD-30E-CT/PCIe SHD-30E-CT/PCIe/FAX SHD-30E-CT/PCIe/EC SHD-60E-CT/PCIe SHD-60E-CT/PCIe/FAX SHD-60E-CT/PCIe/EC SHD-120E-CT/PCIe SHD-120E-CT/PCIe/FAX SHD-120E-CT/PCIe/EC SHD-240E-CT/PCIe SHD-240E-CT/PCIe/FAX SHD-240E-CT/PCIe/EC SHD-30E-CT/PCI (ssw) SHD-30E-CT/PCI/FAX(ssw) SHD-30E-CT/PCI/EC(ssw) SHD-60E-CT/PCI (ssw) SHD-60E-CT/PCI/FAX(ssw) SHD-60E-CT/PCI/EC(ssw) SHD-120E-CT/PCI (ssw) SHD-120E-CT/PCI/FAX(ssw) SHD-120E-CT/PCI/EC(ssw) SHD-240E-CT/PCI (ssw) SHD-240E-CT/PCI/FAX(ssw) SHD-240E-CT/PCI/EC(ssw) </p>	<p> 1) PCI 2.2 and PCIe1.0a support 2) DMA read and write support 3) Support of SS7, ISDN, SS1 protocols for E1, and SS7 (L3), ISDN (ANSI NI2 ISDN, 5ESS ISDN) protocols for T1. 4) Models xxx/FAX support the faxing rate up to 14400. How many channels are exactly supported depends on the board model. 5) Models xxx/EC support the echo cancellation above 32ms. Other board models support the echo cancellation above 16ms. 6) Support of highly efficient, real-time call control and voice processing 7) Support of distributed conferencing 8) Supports multiple voice codecs. Allows A-law, μ-law, IMA ADPCM recordings in hardware </p>	<p> ssw means special-for-switch. At present, these boards support PCI bus only. As they are already connected with CT-bus, users are not required to connect again. </p>

New Features & Fixed Bugs for Other Boards

Series	Feature	Supported Board Model	New Feature & Fixed Bug
DST	Digital Station Tap Boards	All DST series boards	Reenable the support for the Nortel Meridian PBX.
			Support D-channel events for the Siemens Open Stage 40 T digital phone.
			Support D-channel events for the TADICOM PBX.
		DST-24B/PCI	Support the TELKOM PBX.
			Add a new function of exception processing to the driver to avoid the blue screen of death that results from the data exception.
			Solve the problem that errors sometimes occur during the recording of the Ericsson digital phone.
			Support D-channel events for the Siemens AC WIN operator.
		DST-24B/PCI+	Support D-channel events for the TOSHIBADK PBX.
			Better support the Nortel BCM 50.
			Better support the ALCATEL PBX.
		SHR-16DA-CT/PCI	Support the Aastra Nexspan PBX and the M740E phone.
			Fix the bug that the information the ALCATEL 4039 phone shows on its LCD may sometimes be incomplete.
ATP	Analog Tap Passive Board	ATP-24A	Fix the bug that the driver cannot acquire complete LCD information from the NEC PBX.
			Fix the bug existing in the AGC feature.
DTP	Digital Trunk Passive Boards	SHD-60B-CT/PCI/FJ	Support the monitoring in PCM and PCM 16 bit.
			Fix the bug that BargeIn is generated in the state of offline.
		SHD-30B-CT/PCI/FJ	Support the SS7 monitoring of all 31 voice paths.
		DTP-120C/PCIe	Eliminate the probability of misjudging the connection state of the ISDN link.
SHD	Digital Media Processing & Signaling	SHD-30C-CT/PCI	Fix the bug in ISDN monitoring of the line transformed by a T1-to-E1 device.
			Support the DTP boards with PCI-X bus.
			Fix the bug that a too long frame in ISDN results in DSP exception.
			Add new values for self-defined pending reasons in ISDN to SsmGetPendingReason.
			Support the Hot Line protocol.
			Fix the bug that SSMAUODIAL fails to be invoked after the ISDN channel goes into the state of S_CALL_LOCKED.
		Solve the problem on excessive sensitivity to line synchronizing and desynchronizing.	
SHD-30A-CT/PCI/SS7	Conform SsmGetCallerId to SsmGetCallIdA.		
	Support the Loopback debugging.		
	Open all time slots on H.100 bus.		

		SHD-120D-CT/PCI/EC	Fix the bug that reading incorrect hardware data may sometimes induces the blue screen of death.
		SHD-120D-CT/PCI	Enable the configuration on whether to send the 6c unit (calling party number) in ISDN.
		SHD-120A-CT/PCI/SS7	Fix the bug that the large-capacity station board cannot correctly read the configuration item DefaultPausePlayOnRxDtmf.
			Fix the bug that SsmTalkWith can be invoked more than once on the same channel.
SHD-240D-CT/PCI	Correct the wrong range of CQR sent in SS7.		
	Add an operation to unblock the remote end upon receiving GRS in SS7.		
SHT	USB Voice Box	SHT-4B/USB	Fix the bug that parameters of SsmSetWaitDtmf go out of range. Improve the algorithm for color ring detection, allowing to repeatedly throw out the color ring event.
	Analog Media Processing & Signaling	SHT-8B/PCI	Solve the problem of incorrect tone detection in the Linux driver.
SHN	VoIP Media Processing & Signaling	All SHN series boards	Open the interval between two RTP packages to users.
			Fix the bug that configuration program and SS7Monitor program cannot work well if they are started in the mode of service.
			Fix the bug that the system reports error upon invoking SsmSipSetTxUserName.
		Solve the problem that DTMF digits sometimes fail to be sent by signaling.	
SHN-32A-CT/PCI	Solve the problem in new driver's compatibility with old configuration items.		
Newly Added Configuration Item	Add a new configuration item EnAutoAlert02 under the section [ISDN]. If EnAutoAlert02=1, it indicates the 02 (CALL PROCEEDING) message is received. In such situation, if the progress indicator turns to be 8 or 1, the system will go into the state of auto alert.		
	[Add a new configuration item EnAutoAlert03 under the section [ISDN]. If EnAutoAlert03=1, it indicates the 03 (PROGRESS) message is received. In such situation, if the progress indicator turns to be 8 or 1, the system will go into the state of auto alert.		
	Add a new configuration item SpySpCodeLen under the section [SS7Spy] to set the encoding standard for signaling points: 24bit is the National Signaling Point Code (NSPC) format, 14bit is the International Signaling Point Code (ISPC) format.		
	Add a new configuration item UserTxCallingPartyNum under the section [ISDN] to set whether to send the 6c unit (i.e. the calling party number) in the ISDN User Setup message for an outgoing call.		
	Add a new configuration item NetTxCallingPartyNum under the section [ISDN] to set whether to send the 6c unit (i.e. the calling party number) in the ISDN Net Setup message for an outgoing call.		
	Add a new configuration item SipCallCheckInterval under the section [SIP] to set the interval between two checks of the remote end's abnormal hangup.		
	Add a new configuration item EnableCommonTimeSlot under the section [SystemConfig] to open all the common time slots on the TDM bus.		
	Add a new configuration item SpyT1TransE1Line under the section [SpyPcm] to set whether the monitored line is the line transformed by a T1-to-E1 device.		

	Add a new configuration item SizeG711A under the section [BoardId=x] to set the RTP payload in millisecond and meanwhile to adjust the voice processing capability of the board.
	Add a new configuration item SizeG711U under the section [BoardId=x] to set the RTP payload in millisecond and meanwhile to adjust the voice processing capability of the board.
	Add a new configuration item SizeG729 under the section [BoardId=x] to set the RTP payload in millisecond and meanwhile to adjust the voice processing capability of the board.
	Add a new configuration item 2PcmIn1Line under the section [BoardId=x]. This configuration item helps to make the PCM arrangement more in accordance with the common use habit.
Installation Package	Solve the problem that the installation package becomes irrecognizable on a traditional Chinese operating system.